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Cambridgeport Stormwater Improvements Date: May 3, 2020

**IDDE Summary** Revised June 15, 2021

#### **EXECUTIVE SUMMARY**

As part of the Cambridgeport Stormwater Improvements project, an Illicit Discharge Detection and Elimination (IDDE) program has been executed for the Cambridgeport neighborhood in Cambridge, MA. The program began in October 2017 and continued through March 2020. The following memorandum documents the approach taken to implement the program and summarizes the findings.

The program involved investigating and identifying any illicit sanitary sewer services connected to storm drains within the D10 and D12 drainage catchments. Historical drawings, building inspection reports, and closed-circuit television (CCTV) videos were collected and reviewed as a part of the preliminary IDDE investigations. Additionally, drain pipelines with missing data were televised. This data was used to identify buildings with active laterals tying into the drain system. After identifying laterals tied to non-illicit sources, the remaining drain segments were assigned to have building inspections or storm drain inspections and sampling.

Buildings were inspected to identify sewer and stormwater stacks in the basement, and sewer stacks were dye tested to identify an illicit connection to the storm drain. The dye testing procedure consisted of one engineer opening a sewer and stormwater manhole on the downstream pipe from the building and continuously monitoring for dye, while a second engineer entered the building, poured dye into a fixture (i.e., toilet, sink, etc.) and flushed it out of the lateral. Dry weather inspections and flow sampling were performed at selected manholes. This involved placing sandbags in the storm pipe invert and collecting the flow blocked by the sandbags after 48 hours of dry weather. A sample was collected and sent for lab analysis of E. Coli. Blocked flow was also sampled and analyzed for presence of detergents, chlorine and ammonia using field test kits. Additional samples were collected and sent for lab analysis in case of a positive field test. After inspection of 83 buildings, three (3) illicit connections were identified.

The City's remedial contractor redirected the identified illicit connections from the drain to the sewer system. After the corrections were made, Stantec performed follow-up inspections and confirmed the corrections eliminated contamination from the stormwater drainage system.

#### **BACKGROUND**

The IDDE program involved investigating and identifying any illicit sanitary sewer services connected to the dedicated storm drains within the D10 and D12 drainage catchments. The D10 catchment area is approximately 150 acres and the D12 catchment area is approximately 110 acres. The land use is a highly dense urban area with a mix of residential, commercial, and industrial buildings and includes parcels owned by the Massachusetts Institute of Technology (MIT). Additional metrics regarding the two catchments is depicted in Table 1.



	Table 1.	Cambridgenort	t Drainage S	ystem Summary
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	D10	D12	Total
<b>Catchment Size (Acres)</b>	152.9	107.6	260.5
No. of Buildings	546	730	1,276
Length of Drain (LF)	29,746	21,835	51,582

The D10 catchment flows to the existing Endicott Street outfall which contains a weir to hold back flows from the Charles River. In addition, there is a 10-inch underflow connection at the intersection of Pacific Street and Albany Street which directs base flows from the drain over to the Massachusetts Water Resources Authority (MWRA) sanitary sewer on Albany Street. The D10 catchment also overlaps with The Port / PL6 project which is currently under construction and is an ongoing stormwater improvements and separation project.

The D12 catchment area flows to the intersection of Waverly Street and Talbot Street and is directed into an 18-inch underflow connection to the local sanitary sewer and then over to the MWRA sewer system. As part of the Talbot Street Outfall project, a new stormwater outfall is proposed to be installed from Waverly Street down Talbot Street and over to the Charles River. This new outfall will collect the D12 drainage and redirect to the Charles River.

With both outfalls discharging into the Charles River, they will be subject to the National Pollutant Discharge Elimination System (NPDES) permit as administered by the United States Environmental Protection Agency (US EPA) as well as the Massachusetts Department of Environmental Protection (MassDEP). The intent of the IDDE program is to investigate and identify any illicit connections tributary to both drainage outfalls, so that they may be redirected to the sanitary sewer prior to the Talbot Street outfall being activated.

#### HISTORICAL DATA REVIEW

Historical drawings and building inspections of the Cambridgeport area were collected and gathered as a part of the preliminary IDDE investigations. These drawings included as-built sewer volumes, record drawings for improvement project to roadways, sewer, and drainage, utility drawings, etc. The historical documents were used throughout the IDDE project to identify the location, size, and connectivity of existing pipeline. The full list of the historical drawings gathered during this phase is cataloged in **Appendix A**.

#### **CCTV INVESTIGATIONS**

Existing historical CCTV records of the storm drain pipelines in the Cambridgeport area were provided by the City. The recorded dates of the CCTV ranged from 2008 to 2017. In many cases the CCTV reports were not available, and therefore videos were reviewed to make note of active lateral service line connections to the drain system. Any open or defective laterals were noted and considered to be active. The location of active laterals were used to identify buildings that could be the source of an illicit connection. These buildings were flagged in GIS, noting the location and building type, and were scheduled for further investigation that could include manhole inspections and sampling, building inspections, and dye testing.

Major defects to the drainage system that may require the attention of the City were also noted during review of historical CCTV records and are summarized in **Table 2**. Major defects include utility obstructions, infiltration, voids, and severe cracks or fractures which would require repair or replacement of pipe. The most severe defect noted was a concrete obstruction in a 15-inch diameter drain line on Valentine Street, which obstructed approximately 75% of the pipe cross section spanning approximately 28-feet (ft) of the line.



The obstruction was reported to the City and required removal as well as replacement of the damaged portion of the drain pipe. See **Appendix B** for a sketch of the Valentine Street obstruction with the specific location.

Additional drain pipelines that were not included in the historical CCTV records from the City were televised by National Water Main Cleaning Company (NWMCC) under this contract during the winter and spring of 2018. Heavy cleaning was required for portions of the drain in order to complete the CCTV work. Stantec provided field oversight of CCTV activities to ensure complete and quality deliverables. The additional CCTV videos were reviewed in the same fashion as the historical CCTV records. A complete table including notes of the CCTV footage reviewed is provided in **Appendix C**.

**Table 2. CCTV Review – Major Defects** 

Street	MH Reach	Distance (ft)	Notes
Cottage Street	D12DMH7015 – D12DMH7010	101.2, 105	Infiltration - dripper
Erie Street	D12UGS0003 – ACCESS231	144	Broken – Soil visible
Green Street	D10DMH3370 – D10DMH3365		Debris obstructing 95% of pipe
Hamilton Street	D12DMH7405 – D12DMH7510	249.8	DI pipe and concrete duct bank obstruction through pipe.
	D12DMH7405 – D12DMH7310	218	Brick weir at end of pipe approx. 1/3 diameter of pipe.
Magazine Street	D12DMH7520 – D12DMH7510	165	DI pipe through pipe
	D12DMH7525 – D12DMH7515	16.6, 30.9, 155	Holes (12 o'clock)
Mass Ave	D10DMH3265 – D10DMH3260	Multiple	Fractures, cracks, broken pipe throughout distance of pipe
Pearl Street	D10DMH3325 – D10DMH3320	93	Infiltration – dripper (12 o'clock)
	D12DMH6630 – D12DMH6625	181	DI pipe through drain (10 to 2 o'clock)
Sidney Street	D10DMH0605 – D10DMH0600	136	DI pipe through pipe (11 to 1 o'clock)
Speridakis Terr.	D10DMH2460 – D10DMH2457	202	Hole – void visible (9 to 10 o'clock)
Tudor Street	D10DMH1155 – D10DMH0720	109	Hole (5 to 7 o'clock)
Valentine Street	D10DMH2330 – D10DMH2315	5	Offset joint - large
	D10DMH2031 – D10DMH2030	125	Concrete obstruction through center of pipe
Watson Street	D10DMH2715 – D10DMH2712	57	Broken – soil visible (8 to 4 o'clock)
		148 – 170	Multiple fractures and Pipe deforming horizontally (12 o'clock)
Waverly Street	D12DMH0805 – D12DMH0705	31	Infiltration runner (4 to 6 o'clock, within 8 ")
	D12DMH0605 – D12DMH0700	6	Infiltration runner (6 to 9 o'clock)
	D12DMH6210 – D10DMH0305	63	Obstacle - suspect utility (10 to 12 o'clock)



#### **BUILDING INSPECTIONS**

After identifying active laterals tying into the drain system, an assessment was completed to determine which laterals were likely tied to non-illicit sources, such as catch basins, area drains, parking lot drains, etc. The buildings in front of these laterals were noted and tracked in GIS in case they were needed for future investigations. The following buildings were determined not to require inspection for this reason:

- #77 Magazine Street
- #213 Hamilton Street
- #100 Magazine Street
- #174 Hamilton Street
- #10 Corpora McTernan Street
- #100 Pacific Street
- #75 Hamilton Street
- #90 Hamilton Street

The remaining drain segments with lateral connections identified were either assigned to have building inspections or storm drain inspections and sampling. This was based on the number of buildings with potential illicit laterals on each segment of a storm drain. Manhole inspections and sampling were completed for segments with a greater number of buildings. Building inspections were completed for segments with fewer buildings. The inspections were divided based on the two areas within Cambridgeport, D10 and D12.

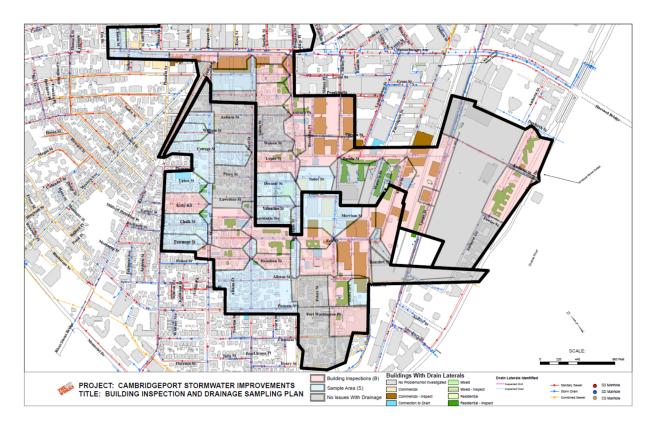


Figure 2 - Cambridgeport D10 and D12 Building Inspection and Sampling Areas



Residential houses requiring inspection were notified with flyers explaining the IDDE work being done in the area and instructing the residents to contact Stantec or the City to schedule an inspection. If the building had a basement, it was inspected to identify the sewer and stormwater stacks. If the building had no basement, then all the individual bathrooms in the building were dye tested. Sewer stacks were identified when numerous laterals branching from the service stack were observed, and the stormwater stacks were identified by a simple vertical stack with no laterals branching out. If there were numerous sewer stacks, they were individually traced back to potential sources, such as a toilet or sink, and dye tested. If there was only one sewer stack, then one bathroom in the building was dye tested. Only one residential unit at #4 Rollins Court refused inspection, so sampling of the downstream stormwater line on Lopez Street was completed instead. Note that only the sewer stacks were dye tested during the entirety of the investigation.

Apartment buildings were inspected using the same procedure as the single and multi-family homes. At #3 Woodrow Wilson Court, there were numerous sewer stacks in the basement with no clear indication of the location of the sources, so it was decided to have the storm water pipe downstream of the building sampled instead. At the MIT student dorms #70 Pacific Street and #235 Albany Street, there was no basement, so only the bathrooms near the suspected laterals were dye tested. Apartment complexes at #66 Brookline Street, #70 Brookline Street, #91 Pacific Street, and #20 Corporal McTernan Street were dye tested in a similar fashion.

Commercial buildings were typically cold called by arriving during normal business hours and requesting a building inspection or scheduling a future inspection. The approach to the commercial building inspection was the same as with the residential buildings. For multi-story commercial buildings without a basement, the bathrooms on each floor were dye tested, typically dye testing one toilet per bathroom. The commercial buildings at #270 Albany Street, #99 Erie Street, and #179 Sidney Street had neutralization tanks to collect disposed chemicals and adjust pH before being discharged to the sewer. Dye could not be added to these tanks due to the discharged water meeting strict pH requirements, so they were not tested.

The dye testing procedure consisted of one engineer opening a sewer and stormwater manhole on the downstream pipe from the building and continuously monitoring for dye, while a second engineer entered the building and poured dye into a fixture (i.e. toilet, sink, etc.) while continuously running water to ensure all the dye is flushed out of the lateral. The engineer monitoring the manholes would notify the second engineer when the dye is spotted. If after approximately 30-45 min no dye is observed in either the sewer or drain manhole, the engineer would relocate to another possible downstream location and the dye test would be repeated. If after relocating to all the possible downstream locations no dye is observed, then the building would be designated as "Unknown."

Overall there were 83 buildings inspected in Cambridgeport, and 3 suspected illicit connections were identified as summarized in following sections. **Appendix D** contains a table summarizing all building inspection results.

On March 31, 2021, a Stantec field team revisited #40 Erie St to conduct another building inspection at this property. Field notes dated September 12, 2005 from CDPW staff indicated potential illicit connections from this property and discharging to the drain on Grove Avenue. The property was revisited to confirm nothing was missed during Stantec's initial building inspection on July 12, 2018 and the IDDE sampling program. Upon revisiting the building in March 2021, all sanitary fixtures were dye tested and traced to the Waverly Street sewer and no illicit connection was found.

#### DRY WEATHER INSPECTIONS AND FLOW SAMPLING

Dry weather inspections and sampling were completed at stormwater manholes selected based on review of historical data and CCTV reviews. Initial manhole inspections included verification of pipeline connectivity,



observation of flow conditions, estimation of the number of sandbags needed to create a dam for the upstream pipe, and identification of any standing water in the manhole that would interfere with an isolated stormwater sample. In cases where there was too much standing water (approximately > 6"), the potential illicit buildings were inspected instead.

The sandbagging effort consisted of either lowering sandbags from the surface or performing confined space entry to place sandbags on the invert of the stormwater pipe, which typically required 1-3 sandbags. After 48 hours of dry weather, the manhole was revisited and if flow was blocked by the sandbags, a sample was collected and sent to the lab for analysis of E. Coli, and the sandbags were removed. Blocked flow was also sampled and analyzed for the presence of detergents and ammonia using field test kits. Chlorine testing with a Hach DR-300 was added to conform to the City's IDDE Plan. If the field test kits were positive, then additional samples were collected and sent to the lab for further analysis for ammonia and detergents.

The first stormwater sampling effort was on May 1, 2018 with three samples collected on May 3, 2018. The second stormwater sampling effort was on September 15, 2018, with four samples sent to the lab on September 17, 2018. **Table 3** provides a summary of laboratory sampling results. Lab reports can be found in **Appendix E.** A Table summarizing flow sampling results can be found in **Appendix F.** All manhole inspection data can be found in **Appendix G.** 

Samples collected for lab testing were sent to Alpha Analytical Laboratories located in Westborough MA. Lab results were compared to the IDDE thresholds to check for compliance. The benchmark concentration thresholds for E. Coli, Ammonia and Detergents along with the original sampling procedure can be found in **Appendix H**. The City's updated IDDE procedures will be followed for future investigations.

**Table 3. Laboratory Sampling Results** 

Manhole ID /Location	Lab ID	E. Coli (col/100ml)	Ammonia (mg/L)	Detergents (mg/L)	Non- Compliance	Sources Identified
Compliant Parameters	-	≤235 cfu/100mL	$\leq 0.5$ mg/L	$\leq 0.1$ mg/L	-	-
229-1	L1815834-02	Non-Detect (ND)	NA	NA	NA	
229-2	L1815834-01	130	NA	NA	NA	
D12DMH7520	L1815834-04	98,000	32.9	0.19	E. Coli, Ammonia & Detergents	Magazine St illicit identified
Sydney/ Erie S-8	L1836861-01	770	NA	NA	E. Coli	Suspect background contaminants
S-15 Brookline/ Decatur	L1836861-02	5	NA	NA	NA	
Pleasant/ Mass Ave	L1836906-01	60	5.66	ND	Ammonia	Mass Ave illicit identified
Pearl/ Mass Ave	L1836906-02	2	NA	NA	NA	



#### **CONFIRMED ILLICIT CONNECTIONS**

Three (3) illicit connections were identified as summarized in the following sections. Stantec prepared a sketch for each illicit connection identifying the location of the illicit lateral. The sketches are provided in **Appendix I**.

#### #57/59 Magazine Street

During the stormwater sampling effort on May 3, 2018, a non-compliant sample was obtained from the upstream pipe in D12DMH7520 on Magazine Street. Three buildings upstream of this location were identified as potential illicit connections: #57/59 Magazine Street, #60 Magazine Street, and #73/75 Magazine Street. As a result, #60 Magazine Street and #73/75 Magazine Street were dye tested and determined to be legally connected to the sanitary sewer. Review of an as-built drawing of a storm drain installed in Magazine Street during May 1939 showed two sewer laterals from #57/59 Magazine Street. Review of the historical CCTV of the stormwater line on Magazine Street identified two laterals potentially from #57/59 Magazine Street, with the lateral 144 ft downstream of D12DMH7537 observed to be active.

Stantec met with the building maintenance staff for #57/59 Magazine Street on July 12, 2018 and inspected the building basement. Two sewer laterals to Magazine Street were identified; the first on the northern wing of the building, and the second on the southern wing. A toilet in the basement tied to the northern sewer lateral was dye tested and the dye was observed in the sewer manhole S30SMH1730 on Magazine Street. A slop sink tied to the southern sewer service was dye tested, and the dye was observed in drain manhole D12DMH7537 on Magazine Street. All the bathrooms and fixtures on the southern portion of the building collect and discharge from this lateral.

#### #750 Mass Ave (7-Eleven)

NWMCC notified Stantec of a possible illicit lateral connection identified during CCTV inspection on Massachusetts Avenue (Mass Ave) approximately 40 ft downstream of drain manhole D10DMH3260.

The 7-Eleven convenience store at 750 Mass Ave was dye tested on April 4, 2018. After approximately 45 minutes, dye was observed in drain manhole D10DMH3257 which is located within the sidewalk along Mass Ave. The shared building basement was accessed through the Pandemonium Books & Games store at #4 Pleasant Street. One sewer service was observed going into the concrete slab foundation to Mass Ave. The building owner explained that the building sewer service was recently replaced, which is when it may have been redirected to the drain line on Mass Ave.

Stantec provided sketches for three alternatives to re-route the illicit connection to the sanitary sewer system.

#### #219 Vassar Street

NWMCC notified Stantec of a possible illicit lateral connection identified during CCTV inspection on Vassar Street approximately 69.6 ft downstream of drain manhole D10DMH1115.

Dye testing of the building at #219 Vassar Street was scheduled through MIT and completed on April 19, 2018. MIT building maintenance staff poured the dye because the facility is a childcare center and Stantec was not allowed to enter. After dye testing a toilet in the building, the dye was observed in drain manhole D10DMH1110 on Vassar Street.



#### **POST-CORRECTION INSPECTIONS**

The City's remedial contractor redirected the identified illicit connections from the drain to the sewer system. As-built drawings for the re-direction of these illicit connections are provided in **Appendix J**.

After the corrections were made, Stantec performed follow-up inspections to confirm the corrections eliminated contamination from the drainage system.

#### # 57/59 Magazine Street

No flow or standing water was observed in manhole D10DMH7520 on February 3, 2020. Four sandbags were lowered from the surface and placed in the manhole invert in the channel. After 48 hours of dry weather, the manhole was revisited on February 5, 2020. No flow was captured by the sandbags and the manhole was found to be dry.

#### #750 Mass Ave (7-Eleven)

Less than an inch of standing water was observed ponded in the inlet of manhole D10DMH3257 on January 28, 2020. Two sandbags were lowered from the surface into the outlet invert. After 48 hours of dry weather, the manhole was revisited on January 30, 2020. No flow was captured by the sandbags and the manhole was found to be dry.

#### #219 Vassar Street

Dye testing of the building at #219 Vassar Street was scheduled through MIT and completed on March 12, 2020. MIT building maintenance staff poured the dye which was observed in sewer manhole S22SMH0210. No dye was seen in the drain manhole D10DMN1110.

#### OTHER OBSERVATIONS

#### #600 Mass Ave (Supreme Liquors)

Stantec inspected #600 Mass Ave on October 15, 2018. The building basement, which was accessed through Supreme Liquors, was inspected and one sewer service and one stormwater service to Mass Ave were identified. The sewer service was traced back to a toilet in Supreme Liquors, which was dye tested and the dye was observed in the sewer manhole S23SMH1645 on Mass Ave. Additionally, in the basement there were three sewer stacks; two stacks connected to two separate slop sinks, and one connected to a toilet in the basement. All three sewer stacks were dye tested but dye was not observed in S23SMH1645 or the drain manhole D10DMH3220 on Mass Ave. During subsequent dye testing on November 2, 2018, dye from one of the sewer stacks was observed in a cleanout located on the sewer lateral in the basement. This suggested that the lateral was backed up and not flowing to Green Street. On March 12, 2020 the building manager confirmed that the cleanout was snaked, and the lateral confirmed to be connected to the sanitary sewer on Green Street.

#### **APPENDICES**

Appendix A – Record Drawing Index

Appendix B – Valentine Street Obstruction Sketch

Appendix C – CCTV Database (Existing and New)

Appendix D – Building Inspection Results Table

Appendix E – Lab Reports

### Memo



 $\begin{array}{l} Appendix \ F-Sampling \ Results \ Table \\ Appendix \ G-Manhole \ Inspection \ Forms \end{array}$ 

Appendix H – Sampling Procedure

Appendix I – Illicit Redirection Sketches

Appendix J – Illicit Redirection As-builts





## APPENDIX A RECORD DRAWING INDEX

		ridgeport IDDE\05.0 PRE-DESIG		MATL PATH EXTENSION	
STREET	YEAR	LIMITS	TYPE	PLAN	
Albany St	2007		San.&Stm.	Endicott Street Area Drainage Improvements (Albany St)	C-01
Albany St	2007	Pacific St	San.&Stm.	Endicott Street Area Drainage Improvements (Albany St)	C-02
Albany St	1898 1906	Pacific St	San.&Stm.	Sewer Volumes\Catchment_D10\Albany St Sewer Volumes\Catchment D10\Albany St	sew-20-06
Albany St Albany St	1906	Pacific St Pacific St to Cross St	San.&Stm. Utility	Utility Records\Historic Utilites\D10\Albany St	sew-22-37 HUA-158
Albany St	1920	Erie St	Utility	Utility Records\Historic Utilites\D12\Albany St	HUA-159
Albany St	1895	Erie St	Utility	Utility Records\Historic Utilites\D12\Albany St	HUB-047
Albany St	2001	Pacific St to Erie St	San.&Stm.	MIT Utility Drawings	MIT Utility 2 2016
·					
Albany St	UNK	Waverly St	San&Stm.	North Charles Relief Sewer\D10_D12 Project Area	NorthChsReliefSewerContractC209-Sht06 - Markup
Albany St	UNK	Pacific St	San.&Stm.	North Charles Relief Sewer\D10_D12 Project Area	NorthChsReliefSewerContractC209-Sht07 - Markup
Allston St Allston St	1873	Magazine St to Pearl St	San.	Sewer Volumes\Catchment_D12\Allston St	sew-06-31
Allston St	2000 1876	Sidney St to Grove Ave Brookline St to Pearl St	Stm. San.	Cambridgeport Roadway Improvements Sewer Volumes\Catchment D12\Allston St	CambridgeportRoadways-2003_71-Drain sew-08-44
Allston St	1885	Brookline St to Sidney St	San.	Sewer Volumes\Catchment D12\Allston St	sew-12-32
Allston St	1890	Brookline St to Waverly St	San.	Sewer Volumes\Catchment D12\Allston St	sew-15-26
Allston St	UNK	Pleasant St to Pearl St	Utility	Utility Records\Comcast Utility	377-530
Allston St	1920	Putnam St to Pearl St	Utility	Utility Records\Historic Utilites\D12\Allston St	HUA-183
Allston St	1895	Brookline St to Sidney St	Utility	Utility Records\Historic Utilites\D12\Allston St	HUB-066
Allston St	1973	Magazine St to Brookline St	San.&Stm.	Maguire Drawings\Allston St	11
Allston St	UNK	Allston St to Grove St	San.&Stm.	Cambridgeport Roadways	Proposed
Allston St Allston Ct	UNK	Sidney St to Grove Ave	San.&Stm.	Cambridgeport Roadways Sewer Volumes\Catchment D12\Allston Ct	Survey
Amherst Aly	1876 1901	Allston St Fowler St to Endicott St	San. San.&Stm	Sewer Volumes\Catchment_D12\Aliston Ct  Other Historical Plans\Catchment D10\Amherst Aly	sew-09-22 3952
Amherst Aly	1940	Fowler St to Endicott St	San.&Stm	Other Historical Plans\Catchment D10\Amherst Aly	7052
Amherst Aly	1959	Fowler St to Endicott St	San.&Stm	Other Historical Plans\Catchment D10\Amherst Aly	7547
Amherst Aly	1901	Endicott St to Danforth St.	San.&Stm	Sewer Volumes\Catchment D10\Amherst Aly	sew-21-49
Amherst Aly	1918	Fowler St to Endicott St	San.&Stm	Sewer Volumes\Catchment_D10\Amherst Aly	sew-26-25
					_2017-11-03 Talbot Street Outfall Plans - 50-pct
Amherst Aly	2017	Vassar St to Memorial Dr	Stm.	Talbot St Outfall 50% Dwgs	Design Development - FINAL 2017-11-07
				CMH7\CMH7cad.zip\Existing Survey - CAD\MIT AMHERST	
Amherst Aly	UNK	Fowler St to Danforth St	San.&Stm.	ALLEY	PRELIMINARY MIT AMHERST ALLEY
Amherst Aly	2001	Fowler St to Danforth St	San.&Stm.	Cambridgeport Roadways	ALLOOF\$
Amherst Aly Amherst Aly	1997	Fowler St to Danforth St Dansforth St to Audrey St	San.&Stm. San.&Stm.	MIT Utility Drawings MIT Utility Drawings	MIT Utility_1_2016 MIT_Utility_Plans_1997
Ashburton Pl	1892	Essex St	San.&Stm.	Sewer Volumes\Catchment D10\Ashburton Pl	sew-16-22
Ashburton Pl	1920	Essex St	Utility	Utility Records\Historic Utilites\D10\Ashburton Pl	HUA-286
Ashburton Pl	1920	Essex St	Utility	Utility Records\Historic Utilites\D10\Ashburton Pl	HUA-057
Auburn St	1869	Pearl St to Brookline St	San.&Stm.	Sewer Volumes\Catchment_D10\Auburn St	sew-03-36
Auburn St	1884	Brookline St to Sidney St	San.&Stm.	Sewer Volumes\Catchment_D10\Auburn St	sew-11-41
Auburn St	1900	Brookline St to Sidney St	San.&Stm.	Sewer Volumes\Catchment_D10\Auburn St	sew-20-32
Auburn St	1871	River St to Magazine St	San.	Sewer Volumes\Catchment_D12\Auburn St	sew-05-33
Auburn St Auburn St	1893 1881	Magazine St to Pearl St Pacific St to Mass Ave.	San. Utility	Sewer Volumes\Catchment_D12\Auburn St Other Historical Plans\Catchment D10\Auburn St	sew-06-46 6562
Auburn St	1935	River St to Brookline St	San.	Other Historical Plans\Catchment D10\Auburn St	6838
Auburn St	1939	River St to Magazine St	San.	Other Historical Plans\Catchment D12\Auburn St	7009
Auburn St	1965	Magazine St to River St	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_105
Auburn St	1965	Pearl St ot Magazine St	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_106
Auburn St	1920	River St to Brookline St	Utility	Utility Records\Historic Utilites\D10\Auburn St	HUA-150
Auburn St	1920	Pearl St	Utility	Utility Records\Historic Utilites\D10\Auburn St	HUB-062
Auburn St	1920	Pleasant Ave to Brookline St	Utility	Utility Records\Historic Utilites\D12\Auburn St	HUA-150
Auburn St Auburn St	1991 1991	Pleasant St to Magazine St Pearl St to Magazine St	Utility Utility	Utility Records\Water Utility Utility Records\Water Utility	WaterAtlas_1991_D6 WaterAtlas 1991 D7
Auburn St	2005	River St to Magazine St	San.&Stm.	CMH3	AsBuilt_10.25.05
Auburn St	1973	Pearl St to Magazine St	San.&Stm.	Maguire Drawings\Auburn St	3
Auburn St	1974	Brookline St to Pearl St	San.&Stm.	Maguire Drawings\Auburn St	Phase01Contract03Sht03
Austin Pk	1922	Austin St.	San.&Stm.	Sewer Volumes\Catchment_D10\Austin Pk	sew-27-31
Bell St	1896	Allston St to Erie St	San.	Sewer Volumes\Catchment_D12\Bell St	sew-18-18
Bigelow St	1869	Main St to Harvard St.	San.&Stm.	Sewer Volumes\Catchment_D10\Bigelow St	str-04-50
Bigelow St	1920	Mass Ave to Harvard St	Utility	Utility Records\Historic Utilites\D10\Auburn St	HUA-254
Bigelow St Bishop Allen Dr.	1895 1860	Mass Ave Inman St to Prospect St	Utility San.&Stm.	Utility Records\Historic Utilites\D10\Auburn St Sewer Volumes\Catchment_D10\Bishop Allen Dr.	HUB-074 sew-02-13
Bishop Allen Dr.	1857	Prospect St to Essex St	San.&Stm.	Sewer Volumes\Catchment_D10\Bishop Allen Dr.  Sewer Volumes\Catchment_D10\Bishop Allen Dr.	sew-02-13 sew-02-42
Bishop Allen Dr.	1890	Prospect St to Norfolk St	San.&Stm.	Sewer Volumes\Catchment_D10\Bishop Allen Dr.	sew-15-31
Bishop Allen Dr.	1890	Douglass St to Main St	San.&Stm.	Sewer Volumes\Catchment_D10\Bishop Allen Dr.	sew-15-32
Bishop Allen Dr.	1937	Inman St to Norfolk St	San.	_Other Historical Plans\Catchment D10\Bishop Allen Drive	6957-2
Bishop Allen Dr.	2016	Norfolk St	GIS	_Other Historical Plans\Catchment D10\Bishop Allen Drive	9519
Bishop Allen Dr.	UNK	Prospect St to Essex St	San.&Stm.	_Other Historical Plans\Catchment D10\Bishop Allen Drive	9849
Bishop Allen Dr.	1895	Columbia St	Utility	Utility Records\Historic Utilites\D10\Bishop Allen Dr	HUB-058
Bishop Allen Dr.	1895	Inman St to Essex St	Utility	Utility Records\Historic Utilites\D10\Bishop Allen Dr	HUB-059
Bishop Allen Dr. Blanche St	1895 1999	Norfolk St to Main St Mass Ave to Green St	Utility San&Stm.	Utility Records\Historic Utilites\D10\Bishop Allen Dr University Park	HUB-060 UniversityParkAsbuilt2007
Brookline St	1857	Pilgrim St to Main St	San.&Stm.	Sewer Volumes\Catchment D10\Brookline St	sew-01-35
					55 52.00

Brookline St	1857	Valentine St to Pilgrim St	San.&Stm.	Sewer Volumes\Catchment_D10\Brookline St	sew-01-36
Brookline St	1857	Valentine St to Main St	San.&Stm.	Sewer Volumes\Catchment_D10\Brookline St	sew-02-34
Brookline St	1869	Valentine St to Erie St	San.&Stm.	Sewer Volumes\Catchment_D10\Brookline St	sew-03-37
Brookline St	1900	Green St to Lopez St	San.&Stm.	Sewer Volumes\Catchment_D10\Brookline St	sew-20-18
Brookline St	1900	Erie St to Pacific St	San.&Stm.	Sewer Volumes\Catchment_D10\Brookline St	sew-20-17
Brookline St	1900	Green St to Mass Ave	San.&Stm.	Sewer Volumes\Catchment_D10\Brookline St	sew-20-19
Brookline St	1883	Allston St to Erie St	San.	Sewer Volumes\Catchment_D12\Brookline St	sew-10-44
Brookline St	1885	Allston St to Chestnut St	San.	Sewer Volumes\Catchment_D12\Brookline St	sew-12-10
Brookline St	1900	Allston St ot Erie St	San.	Sewer Volumes\Catchment_D12\Brookline St	sew-20-16
Brookline St	1900	Erie St to Pacific St	San.&Stm.	Sewer Volumes\Catchment_D12\Brookline St	sew-20-17
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Brookline St	1995	Franklin St to Mass Ave	Street Map	Other Historical Plans\Catchment D10\Brookline St	CentralSquare-Bryant1995-Sheet12
Brookline St	UNK	Pacific St	Com.	Other Historical Plans\Catchment D10\Brookline St	SewerDetail064 BrooklineAtPacific
Brookline St	2002	Granite to Henry	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003 44-Drain
Brookline St	UNK	Allston St ot Auburn St	Utility	Utility Records\Comcast Utility	377-530
Brookline St	1957	Emily St to Pacific St	Utility	Utility Records\Electric Utility	02_Page_31
Brookline St	1965	Lopez St to Auburn St	Utility	Utility Records\Electric Utility	02 Page 33
Brookline St	1965	Erie St to Watson St	Utility	Utility Records\Gas Utility	Brookline St Gas
Brookline St	1920	Franklin St to Pacific St	Utility	Utility Records\Historic Utilites\D10\Brookline St	HUA-111
Brookline St	UNK	Erie St to Putnam St	Utility	Utility Records\Historic Otilites\D10\Brookline St	HUA-112
Brookline St	UNK	Valentine St to Sidney St	Utility	Utility Records\Historic Otilites\D10\Brookline St	HUA-181
Brookline St	1895	Green St to Mass Ave	Utility	Utility Records\Historic Utilites\D10\Brookline St	HUA-060
Brookline St	1895	Green St to Mass Ave	Utility	Utility Records\Historic Utilites\D10\Brookline St	HUB-202
Brookline St	1895	Decatur St to Franklin St	Utility	Utility Records\Historic Utilites\D10\Brookline St	HUB-063
Brookline St	1895	Allston St to Emily St	Utility	Utility Records\Historic Utilites\D10\Brookline St	HUB-066
Brookline St	1895	Henry St to Putnam St	Utility	Utility Records\Historic Utilites\D12\Brookline St	HUB-069
Brookline St	1991	Decatur St to Mass Ave	Utility	Utility Records\Water Utility	WaterAtlas_1991_D7
				CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR	PRELIMINARY DECATUR VALENTINE TUDOR EMILY
Brookline St	UNK	Valentine St to Tudor St	San.&Stm.	VALENTINE TUDOR EMILY SPERIDAKIS	SPERIDAKIS
Brookline St	UNK	Franklin St to Green St	San.&Stm.	CMH7\CMH7cad.zip\Existing Survey - CAD\FRANKLIN GREEN	PRELIMINARY FRANKLIN GREEN
Brookline St	1974	Auburn St to Valentine St	San.&Stm.	Maguire Drawings\Brookline	2
Brookline St	1973	Erie St to Putnam St	San.&Stm.	Maguire Drawings\Brookline	12
Chalk St	1873	Pleasant St	San.	Sewer Volumes\Catchment D12\Chalk St	sew-06-16
Chalk St	UNK	Pleasant St to Magazine St	Utility	Utility Records\Comcast Utility	377-530
Chalk St	1965	Magazine St to Pleasant St	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_104
Chalk St	2005	Pleasant St to Magazine St	San.&Stm.	CMH3	
					AsBuilt 10.25.05
Chestnut St		•			AsBuilt_10.25.05 sew-07-46
Chestnut St	1874	Pearl St to Brookline St	San.	Sewer Volumes\Catchment_D12\Chestnut St	sew-07-46
Chestnut St	1874 1883	Pearl St to Brookline St Brookline St to Waverly St	San. San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St	sew-07-46 sew-10-45
Chestnut St Chestnut St	1874 1883 1900	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly	San. San. San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St	sew-07-46 sew-10-45 1388
Chestnut St Chestnut St Chestnut St	1874 1883 1900 UNK	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly St	San. San. San. Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St	sew-07-46 sew-10-45 1388 HUA-186
Chestnut St Chestnut St Chestnut St Chestnut St	1874 1883 1900 UNK 1973	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly St Pearl St to Brookline St	San. San. San. Utility San.&Stm.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St	sew-07-46 sew-10-45 1388 HUA-186 7
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St	1874 1883 1900 UNK 1973 2009	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly St Pearl St to Brookline St Mass Ave	San. San. San. Utility San.&Stm. San.&Stm.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St	1874 1883 1900 UNK 1973 2009	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St	San. San. San. Utility San.&Stm. San.&Stm. San.&Stm.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St	1874 1883 1900 UNK 1973 2009	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly St Pearl St to Brookline St Mass Ave	San. San. San. Utility San.&Stm. San.&Stm.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A
Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal	1874 1883 1900 UNK 1973 2009 1909 1895	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave	San. San. Utility San.&Stm. San.&Stm. Utility Utility San.&Stm. Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074
Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St	1874 1883 1900 UNK 1973 2009	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St	San. San. San. Utility San.&Stm. San.&Stm. San.&Stm.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26
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Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Clorporal McTernan St Corporal McTernan St	1874 1883 1900 UNK 1973 2009 1909 1895	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave	San. San. Utility San.&Stm. San.&Stm. Utility Utility San.&Stm. Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074
Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal	1874 1883 1900 UNK 1973 2009 1909 1895 1871	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly Sidney St to Brookline St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Magazine St ot Pearl St Magazine St	San. San. San. Utility San.&Stm. San.&Stm. Utility San.&Stm. San.&Stm. Utility San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Sewer Volumes\Catchment_D12\Corporal Mcternan St Sewer Volumes\Catchment_D12\Corporal Mcternan St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36
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Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal	1874 1883 1900 UNK 1973 2009 1909 1895 1871 UNK	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Magazine St ot Pearl St Magazine St Magazine St	San. San. San. Utility San.&Stm. San.&Stm. Utility San. Utility Utility Utility Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Sewer Volumes\Catchment_D12\Corporal Mcternan St  Sewer Volumes\Catchment_D12\Corporal Mcternan St Utility Records\Comcast Utility	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36
Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St	1874 1883 1900 UNK 1973 2009 1909 1895 1871 UNK	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly Sidney St to Waverly Sidney St to Brookline St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Magazine St ot Pearl St Magazine St Magazine St to Pearl St	San. San. San. Utility San.&Stm. San.&Stm. Utility San.&Stm. Utility Utility Utility Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St  Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164
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Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cotporal McTernan St Cottage St Cottage St	1874 1883 1900 UNK 1973 2009 1895 1871 UNK 1920 1935 1873 1881	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Magazine St ot Pearl St Magazine St to Pearl St River to to Pearl St River to to Pearl St Pearl St to Magazine St Magazine St Magazine St Magazine St ot Pearl St River to to Pearl St Pearl St to Magazine St Magazine St	San. San. San. Utility San.&Stm. San.&Stm. Utility San. Utility San. Utility San. San. Utility San. San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St  _Other Historical Plans\Catchment D10\Clinton St  _Other Historical Plans\Catchment D10\Clinton St  Sewer Volumes\Catchment_D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Other Historical Plans\Catchment D10\Cottage St Sewer Volumes\Catchment_D12\Cottage St Sewer Volumes\Catchment_D12\Cottage St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05
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Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cotage St Cottage St	1874 1883 1900 UNK 1973 2009 1909 1895 1871 UNK 1920 1935 1873 1881 1885 1973 UNK 1965	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Magazine St ot Pearl St Magazine St to Pearl St River to to Pearl St Pearl St to Magazine St River St Magazine St to Pearl St Magazine St	San. San. San. Utility San.&Stm. San.&Stm. Utility San. Utility San. Utility San. Utility Utility Utility San. San. San. Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment D12\Chestnut St Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Other Historical Plans\Catchment_D10\Cottage St Sewer Volumes\Catchment_D12\Cottage St Sever Volumes\Catchment_D12\Cottage St Sever Volumes\Catchment_D12\Cottage St Sever Volumes\Catchment_D12\Cottage St Utility Records\Comcast Utility Utility Records\Comcast Utility	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104
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Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cotage St Cottage St	1874 1883 1900 UNK 1973 2009 1909 1895 1871 UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Tearl St Magazine St of Pearl St Magazine St to Pearl St River to to Pearl St Pearl St to Magazine St River St Pearl St to Magazine St Magazine St River St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Pearl St Magazine St to Pearl St Magazine St Magazine St to Pearl St	San. San. San. Utility San.&Stm. San.&Stm. San.&Stm. Utility San. Utility San. San. Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St  _Other Historical Plans\Catchment D10\Clinton St  _Other Historical Plans\Catchment D10\Clinton St  _Sewer Volumes\Catchment_D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  _Utility Records\Historic Utilites\D10\Corporal Mcternan St  _Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St  _Other Historical Plans\Catchment_D12\Cottage St _Sewer Volumes\Catchment_D12\Cottage St _Sketches  _Utility Records\Comcast Utility _Utility Records\Gas Utility _Utility Records\Gas Utility _Utility Records\Gas Utility	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106
Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cottage St	1874 1883 1900 UNK 1973 2009 1895 1871 UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965 1920	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Dearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St ot Pearl St Magazine St to Pearl St Sidney St to Pearl St Magazine St to Pearl St Pearl St to Magazine St Pearl St to Magazine St Magazine St to Pearl St	San. San. San. San. Utility San.&Stm. Utility San. San. Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic utilites\D12\Chestnut St  Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St  _Other Historical Plans\Catchment D10\Clinton St  Sewer Volumes\Catchment_D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  _Other Historical Plans\Catchment D10\Cottage St Sewer Volumes\Catchment_D12\Cottage St Sewer Volumes\Catchment_D12\Cottage St Sewer Volumes\Catchment_D12\Cottage St Sewer Volumes\Catchment_D12\Cottage St Utility Records\Comcast Utility  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106 HUA-153
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cottage St	1874 1883 1900 UNK 1973 2009 1895 1871  1877  UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965 1920 1895	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Dearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St of Pearl St Magazine St to Pearl St Magazine St to Pearl St River to to Pearl St Pearl St to Magazine St to Pearl St	San. San. San. San. San. San. San. San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic utilites\D12\Chestnut St  Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton StOther Historical Plans\Catchment D10\Clinton StOther Historical Plans\Catchment D10\Clinton StOther Historical Plans\Catchment D10\Clinton StOther Historical Plans\Catchment_D10\Clinton StOther Historical Plans\Catchment_D12\Corporal Mcternan StOther Historical Plans\Catchment_D12\Corporal Mcternan StOther Historical Plans\Catchment D10\Cottage StSewer Volumes\Catchment_D12\Cottage StSewer Volumes\Catchme	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_106 HUA-153 HUB-062
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cottage St	1874 1883 1900 UNK 1973 2009 1895 1871  1877  UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965 1965 1920 1895	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St of Pearl St Magazine St of Pearl St River to to Pearl St Pearl St to Magazine St Magazine St Pearl St to Magazine St Magazine St Magazine St Pearl St to Pearl St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Magazine St Pleasant St to Magazine St River St to Magazine St	San. San. San. San. Stm. San.&Stm. San.&Stm. Utility San. Utility Utility San. San. San. San. Utility	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St Sewer Volumes\Catchment_D12\Corporal Mcternan St  Other Historical Plans\Catchment D10\Cottage St Sewer Volumes\Catchment_D12\Cottage St Utility Records\Comcast Utility Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106 HUA-153 HUB-062 WaterAtlas_1991_D6
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cotage St Cottage St	1874 1883 1900 UNK 1973 2009 1895 1871 1877 UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965 1920 1895 1991 2005	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St of Pearl St Magazine St of Pearl St River to to Pearl St Pearl St to Magazine St Magazine St Magazine St River St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Magazine St Pleasant St to Magazine St River St to Magazine St River St to Magazine St River St to Magazine St	San. San. San. Utility San.&Stm. San.&Stm. Utility San. San. Utility San. Utility San.&Stm.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment D12\Chestnut St Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St Utility Records\Comcast Utility  Sewer Volumes\Catchment_D12\Cottage St Utility Records\Comcast Utility  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Clinton St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106 HUA-153 HUB-062 WaterAtlas_1991_D6 AsBuilt_10.25.05
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Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cottage St	1874 1883 1900 UNK 1973 2009 1895 1871  UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965 1965 1965 1965 1965 1965	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Dearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St ot Pearl St Magazine St to Pearl St Magazine St to Pearl St Pearl St to Magazine St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Pearl St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Magazine St Pearl St to Magazine St Pearl St to Brookline St Pearl St to Brookline St	San. San. San. San. Stm. San. San. San. San. San. San. San. San	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St  Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St _Other Historical Plans\Catchment D10\Clinton St _Other Historical Plans\Catchment D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St _Other Historical Plans\Catchment D10\Cottage St _Sewer Volumes\Catchment_D12\Cottage St _Utility Records\Comcast Utility _Utility Records\Gas Utility _Utility Records\Gas Utility _Utility Records\Gas Utility _Utility Records\Historic Utilites\D10\Clinton St _Other Historical Plans\Catchment_D10\Decatur St _Other Historical Plans\Catchment_D10\Decatur St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6866 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106 HUA-153 HUB-062 WaterAtlas_1991_D6 AsBuilt_10.25.05 4 sew-07-47 6861
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Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cottage St Decatur St Decatur St Decatur St	1874 1883 1900 UNK 1973 2009 1895 1871  1877  UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965 1965 1973 1874 1935 UNK 1965 1973 1874 1935 UNK 1965 1973 1874 1935 UNK	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Dearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St of Pearl St Magazine St of Pearl St Magazine St to Pearl St River to to Pearl St Pearl St to Magazine St Magazine St Magazine St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Pearl St Magazine St Pearl St to Magazine St Magazine St to Pearl St Pearl St to Magazine St Pearl St to Magazine St Pearl St to Magazine St Pearl St to Brookline St	San. San. San. San. San. San. San. San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic utilites\D12\Chestnut St Maguire Drawings\Chestnut St Other Historical Plans\Catchment D10\Clinton St  _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St  _Other Historical Plans\Catchment_D10\Cottage St Sewer Volumes\Catchment_D12\Cottage St  Utility Records\Comcast Utility  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Utility Records\Historic Utilites\D10\Decatur St  _Other Historical Plans\Catchment D10\Decatur St  Utility Records\Historic Utility  Utility Records\Gas Utility	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106 HUA-153 HUB-062 WaterAtlas_1991_D6 AsBuilt_10.25.05 4 sew-07-47 6861 377-530 Brookline St Gas HUA-163
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cottage St Decatur St Decatur St Decatur St	1874 1883 1900 UNK 1973 2009 1895 1871  1877  UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965 1965 1965 1973 1874 1935 UNK 1935 1874 1935 UNK	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St of Pearl St Magazine St of Pearl St Magazine St to Pearl St River to to Pearl St Pearl St to Magazine St Magazine St to Pearl St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Pearl St Pearl St to Magazine St Magazine St to Pearl St Pearl St to Magazine St Pearl St to Magazine St Pearl St to Magazine St Pearl St to Brookline St Pearl St to Pearl St	San. San. San. San. San. San. San. San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St Other Historical Plans\Catchment D10\Clinton St  _Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St  _Other Historical Plans\Catchment_D10\Cottage St Sewer Volumes\Catchment_D12\Cottage St Utility Records\Comcast Utility Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St _Other Historical Plans\Catchment D10\Decatur St _Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Comcast Utility Utility Records\Gas Utility	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-10-05 sew-10-05 sew-10-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106 HUA-153 HUB-062 WaterAtlas_1991_D6 AsBuilt_10.25.05 4 sew-07-47 6861 377-530 Brookline St Gas HUA-163 WaterAtlas_1991_D7
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cottage St Decatur St Decatur St Decatur St Decatur St Decatur St Decatur St	1874 1883 1900 UNK 1973 2009 1895 1871 1877 UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1920 1895 UNK 1965 1991 2005 1973 1874 1935 UNK 1965 1991 1991	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Pearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St of Pearl St Magazine St of Pearl St River St of Pearl St River to to Pearl St Pearl St to Magazine St Magazine St Magazine St Magazine St Magazine St Magazine St Pearl St to Pearl St Magazine St Magazine St Pearl St to Pearl St Magazine St to Magazine St Pearl St to Magazine St Pearl St to Brookline St	San. San. San. Utility San.&Stm. San.&Stm. Utility San. San. Utility Utility Utility San. San. San. San. San. San. San. San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St Maguire Drawings\Chestnut St Other Historical Plans\Catchment D10\Clinton St Sewer Volumes\Catchment_D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St  Other Historical Plans\Catchment_D10\Cottage St Sewer Volumes\Catchment_D12\Cottage St Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Clinton St Utility Records\Historic Utilites\D10\Dcatur St Other Historical Plans\Catchment_D10\Decatur St Utility Records\Historic Utilites\D10\Decatur St	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106 HUA-153 HUB-062 WaterAtlas_1991_D6 AsBuilt_10.25.05 4 sew-07-47 6861 377-530 Brookline St Gas HUA-163 WaterAtlas_1991_D7 PRELIMINARY DECATUR VALENTINE TUDOR EMILY
Chestnut St Chestnut St Chestnut St Chestnut St Chestnut St Clinton St Clinton St Clinton St Corporal McTernan St Corporal McTernan St Corporal McTernan St Corporal McTernan St Cottage St Decatur St Decatur St Decatur St Decatur St Decatur St	1874 1883 1900 UNK 1973 2009 1895 1871  1877  UNK 1920 1935 1873 1881 1885 1973 UNK 1965 1965 1965 1965 1965 1965 1965 1965	Pearl St to Brookline St Brookline St to Waverly St Sidney St to Waverly St Sidney St to Waverly St Dearl St to Brookline St Mass Ave Mass Ave to Harvard St Mass Ave Mass Ave to Harvard St Magazine St ot Pearl St Magazine St to Pearl St Magazine St to Pearl St Pearl St to Magazine St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Pearl St Magazine St to Pearl St Pearl St to Magazine St Magazine St to Pearl St Magazine St to Rearl St Magazine St to Rearl St Magazine St to Pearl St Magazine St to Pearl St Magazine St to Rearl St Pearl St to Magazine St Pearl St to Magazine St Pearl St to Brookline St	San. San. San. San. San. San. San. San.	Sewer Volumes\Catchment_D12\Chestnut St Sewer Volumes\Catchment_D12\Chestnut St _Other Historical Plans\Catchment D12\Chestnut St Utility Records\Historic Utilites\D12\Chestnut St  Maguire Drawings\Chestnut St _Other Historical Plans\Catchment D10\Clinton St _Other Historical Plans\Catchment D10\Clinton St _Other Historical Plans\Catchment D10\Clinton St  Sewer Volumes\Catchment_D10\Clinton St  Utility Records\Historic Utilites\D10\Clinton St  Sewer Volumes\Catchment_D12\Corporal Mcternan St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D12\Corporal Mcternan St _Other Historical Plans\Catchment D10\Cottage St _Sewer Volumes\Catchment_D12\Cortage St _Sewer Volumes\Catchment_D12\Cottage St _Sewer Volumes\Catchment_D10\Cottage St _Utility Records\Gas Utility _Utility Records\Historic Utilites\D10\Clinton St _Utility Records\Historic Utilites\D10\Clinton St _Utility Records\Historic Utilites\D10\Clinton St _Other Historical Plans\Catchment_D10\Decatur St _Utility Records\Comcast Utility _Utili	sew-07-46 sew-10-45 1388 HUA-186 7 CMH4-Asbuilt_C01A sew-25-26 HUB-074 sew-05-35 sew-09-36 377-530 HUA-164 6856 sew-07-31 sew-10-05 sew-12-23 MWRA Crossing (Sketch) 377-530 CambridgeGasCo_1965Atlas_104 CambridgeGasCo_1965Atlas_105 CambridgeGasCo_1965Atlas_106 HUA-153 HUB-062 WaterAtlas_1991_D6 AsBuilt_10.25.05 4 sew-07-47 6861 377-530 Brookline St Gas HUA-163 WaterAtlas_1991_D7 PRELIMINARY DECATUR VALENTINE TUDOR EMILY
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Douglass St			ı		
	1995	Mass Ave to Bishop Allen Dr.	Street Map	Other Historical Plans\Catchment D10\Douglass St	CentralSquare-Bryant1995-Sheet15
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Douglass St	1995	Bishop Allen Dr	Street Map	_Other Historical Plans\Catchment D10\Douglass St	CentralSquare-Bryant1995-Sheet18
Douglass St	1920	Mass Ave to Austin St	Utility	Utility Records\Historic Utilites\D10\Douglass St	HUA-287
Douglass St	1895	Mass Ave to Austin St	Utility	Utility Records\Historic Utilites\D10\Douglass St	HUB-060
Douglass Ct Doyle Way	1905 2008	Douglass St Inman St	San.&Stm. San.&Stm.	Sewer Volumes\Catchment_D10\Douglass St  Other Historical Plans\Catchment D10\Doyle Way	sew-22-21 CMH4-Asbuilt C11
Emily St	1912/1917	Brookline St to Sidney St	San.&Stm.	Sewer Volumes\Catchment D12\Emily St	sew-27-12
Emily St	UNK	Brookline St to Sidney St	Utility	Utility Records\Comcast Utility	377-530
Emily St	1920	Brookline St to Sidney St	Utility	Utility Records\Historic Utilites\D12\Emily St	311 332
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Emily St	UNK	Brookline St to Sidney St	San.&Stm.	VALENTINE TUDOR EMILY SPERIDAKIS	SPERIDAKIS
Endicott St	1961	Vassar St to Memorial Dr	Stm.	_Other Historical Plans\Catchment D10\Enditcott St	EndicottSt-RiverIntakeDischarge-1961-A
Endicott St	1899		San.&Stm.	Sewer Volumes\Catchment_D10\Endicott St	sew-20-22
Endicott St	UNK	Vassar St to Amherst Alley	Utility	Utility Records\Historic Utilites\D10\Endicott St	HUA-221
Endicott St Endicott St	UNK 1997	Amherst St Endicott St	San.&Stm. San.&Stm.	Cambridgeport Roadways	ALLOOF\$
Eliulcott St	1997	Eliulcott St	3411.031111.	MIT Utility Drawings	MIT_Utility_Plans_1997
Erie St	1983	Albany St to Waverly St	Street Map	Other Historical Plans\Catchment D12\Erie St	WaverlyStreetReconstruction-1983 Sht04
Erie St	2000	Sidney to Albany	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003 74-Drain
Erie St	2002	Waverly St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003_76-DrainStructure
Erie St	2002	Sidney St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003_77-DrainStructure
Erie St	2014	-	Stm.	Erie St Sewer Separation	CMH4 Erie and Pearl Sheet C-1
Erie St	2014	Pearl St	Stm.	Erie St Sewer Separation	CMH4 Erie and Pearl Sheet C-2
Erie St	1873	Magazine St to Pearl St	San.	Sewer Volumes\Catchment_D12\Erie St	sew-06-20
Erie St	1873	Pearl St to Brookline St	San.	Sewer Volumes\Catchment_D12\Erie St	sew-06-25
Erie St	1901 1912	Brookline St to Albany St	San.&Stm. San.&Stm.	Sewer Volumes\Catchment_D12\Erie St	sew-20-49
Erie St Erie St	1912 UNK	Pearl St to Brookline St Magazine St ot Sidney St	Utility	Sewer Volumes\Catchment_D12\Erie St  Utility Records\Comcast Utility	sew-26-22 377-530
Erie St	1965	Brookline St to Pearl St	Utility	Utility Records\Contast Othity  Utility Records\Gas Utility	Brookline St Gas
Erie St	1920	Sidney St to Brookline St	Utility	Utility Records\Historic Utilites\D12\Erie St	HUA-179
Erie St	UNK	Sidney St to Waverly St	San.&Stm.	Cambridgeport Roadways	Proposed
Erie St	UNK	Sidney St to Waverly St	San.&Stm.	Cambridgeport Roadways	Survey
Essex St	1883	Main St to Bishop Allen Dr.	San.&Stm.	Sewer Volumes\Catchment_D10\Essex St	sew-11-01
Essex St	1892	Bishop Allen Dr to Harvard St	San.&Stm.	Sewer Volumes\Catchment_D10\Essex St	sew-16-24
Essex St	1949	Bishop Allen Dr to Harvard St	San.	_Other Historical Plans\Catchment D10\Essex St	7285
Essex St	1995	Mass Ave to Bishop Allen Dr.	Street Map	_Other Historical Plans\Catchment D10\Essex St	CentralSquare-Bryant1995-Sheet13
Essex St	1920	Mass Ave to Bishop Allen Dr.	Utility	Utility Records\Historic Utilites\D10\Essex St	HUA-281
Essex St	1920 1895	Percy Place to Harvard St	Utility	Utility Records\Historic Utilites\D10\Essex St	HUA-282 HUB-057
Essex St Essex St	1895	Harvard St to Bishop Allen Dr Mass Ave to Bishop Allen Dr.	Utility Utility	Utility Records\Historic Utilites\D10\Essex St Utility Records\Historic Utilites\D10\Essex St	HUB-059
Fairmont St	1873	Pleasant St to Magazine St	San.	Sewer Volumes\Catchment D12\Fairmont St	sew-07-08
Fairmont St	UNK	Pleasant St to Magazine St	Utility	Utility Records\Comcast Utility	377-530
Fairmont St	1965	Magazine St to Pleasant St	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_104
Fairmont St		Widgazine St to Fiedsant St	Charles .	Utility Records\Historic Utilites\D12\Fairmont St	
Tullillone St	1920	Allston St to Fairmont St	Utility	Other Records (Historic Others (D12 (Fairmont St	HUA-182
Fairmont St	1920 2005	•	San.&Stm.	CMH3	HUA-182 AsBuilt_10.25.05
Fairmont St Franklin St	2005 1870	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St	San.&Stm. San.&Stm.	CMH3 Sewer Volumes\Catchment_D10\Franklin St	AsBuilt_10.25.05 sew-04-41
Fairmont St Franklin St Franklin St	2005 1870 1873	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St	San.&Stm. San.&Stm. San.&Stm.	CMH3 Sewer Volumes\Catchment_D10\Franklin St Sewer Volumes\Catchment_D10\Franklin St	AsBuilt_10.25.05 sew-04-41 sew-06-32
Fairmont St Franklin St Franklin St Franklin St	2005 1870 1873 1873	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  Sewer Volumes\Catchment_D10\Franklin St  Sewer Volumes\Catchment_D10\Franklin St	AsBuilt_10.25.05 sew-04-41 sew-06-32 sew-06-33
Fairmont St Franklin St Franklin St Franklin St Franklin St	2005 1870 1873 1873 1903	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  Sewer Volumes\Catchment_D10\Franklin St  Sewer Volumes\Catchment_D10\Franklin St  Sewer Volumes\Catchment_D10\Franklin St	AsBuilt_10.25.05 sew-04-41 sew-06-32 sew-06-33 sew-21-03
Fairmont St Franklin St Franklin St Franklin St Franklin St Franklin St	2005 1870 1873 1873 1903 1911	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St	AsBuilt_10.25.05 sew-04-41 sew-06-32 sew-06-33 sew-21-03 sew-24-26
Fairmont St Franklin St Franklin St Franklin St Franklin St Franklin St Franklin St	2005 1870 1873 1873 1903 1911 1935	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St	AsBuilt_10.25.05 sew-04-41 sew-06-32 sew-06-33 sew-21-03 sew-24-26 6873 (1)
Fairmont St Franklin St Franklin St Franklin St Franklin St Franklin St Franklin St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St	AsBuilt_10.25.05 sew-04-41 sew-06-32 sew-06-33 sew-21-03 sew-24-26 6873 (1) 6919
Fairmont St Franklin St Franklin St Franklin St Franklin St Franklin St Franklin St	2005 1870 1873 1873 1903 1911 1935	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St	AsBuilt_10.25.05 sew-04-41 sew-06-32 sew-06-33 sew-21-03 sew-24-26 6873 (1)
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  University Park	AsBuilt_10.25.05 sew-04-41 sew-06-32 sew-06-33 sew-21-03 sew-24-26 6873 (1) 6919 UniversityParkAsbuilt2007
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Landsdowne St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San.&Stm. San.&Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  University Park  University Park	AsBuilt_10.25.05 sew-04-41 sew-06-32 sew-06-33 sew-21-03 sew-24-26 6873 (1) 6919 UniversityParkAsbuilt2007 UniversityParkAsbuilt2007
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1999	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Deardsdowne St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San. Sun. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1999 1965 1965	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San. San. San. Stm. Utility Utility	CMH3  Sewer Volumes\Catchment_D10\Franklin St  Other Historical Plans\Catchment D10\Franklin St  Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Historic Utilites\D10\Franklin St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1999 1965 1965 1920	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline St Sidney St to Brookline St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San. Sun. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1965 1965 1965 1920 1991	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Landsdowne St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st Pearl St to Sidney St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San. San. Sum. San. Sum. Sum. Sum. Sum. Sum. Sum. Sum. Sum	CMH3  Sewer Volumes\Catchment_D10\Franklin St  Other Historical Plans\Catchment D10\Franklin St  Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Historic Utilites\D10\Franklin St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1965 1965 1920 1920 1991 UNK	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Landsdowne St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st Pearl St to Sidney St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San. San. San. Sum. San. San. Sum. Sum. Sum. Sum. Sum. Sum. Sum. Sum	CMH3  Sewer Volumes\Catchment_D10\Franklin St _Other Historical Plans\Catchment D10\Franklin St _Other Historical Plans\Catchment D10\Franklin St University Park University Park University Park Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1965 1965 1920 1920 1991 UNK 1863	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Landsdowne St Sidney St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Sidney St Pearl St to Brookline St Pearl St to Brookline St Pearl St to Brookline St Magazine St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San. San. San. Sum. San. San. Sum. Sum. Sum. Sum. Sum. Sum. Sum. Sum	CMH3  Sewer Volumes\Catchment_D10\Franklin St _Other Historical Plans\Catchment D10\Franklin St _Other Historical Plans\Catchment D10\Franklin St University Park University Park University Park Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1965 1965 1920 1920 1991 UNK 1863 1875	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Fookline St Magazine St to River St Pearl St to Brookline St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility San.&Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St _Other Historical Plans\Catchment D10\Franklin St _Other Historical Plans\Catchment D10\Franklin St University Park University Park Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D10\Franklin St Utility Records\Water Utility CMH7\CMH7cad.zip\Existing Survey - CAD\FRANKLIN GREEN Sewer Volumes\Catchment_D10\Green St Sewer Volumes\Catchment_D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1999 1999 1995 1965 1920 1920 1991 UNK 1863 1875 1910	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline Brookline To Sidney St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Sidney St Magazine St Pearl St to Brookline St Magazine St to Pearl St Pearl St to Brookline St Magazine St to Pearl St Pearl St to Brookline St Magazine St to Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility San.&Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Water Utility  CMH7\CMH7cad.zip\Existing Survey - CAD\FRANKLIN GREEN  Sewer Volumes\Catchment_D10\Green St  Sewer Volumes\Catchment_D10\Green St  Sewer Volumes\Catchment_D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49  sew-25-14
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1965 1965 1920 1920 1991 UNK 1863 1875	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Fookline St Magazine St to River St Pearl St to Brookline St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility San.&Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St _Other Historical Plans\Catchment D10\Franklin St _Other Historical Plans\Catchment D10\Franklin St University Park University Park Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D10\Franklin St Utility Records\Water Utility CMH7\CMH7cad.zip\Existing Survey - CAD\FRANKLIN GREEN Sewer Volumes\Catchment_D10\Green St Sewer Volumes\Catchment_D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1999 1999 1965 1965 1920 1991 UNK 1863 1875 1910	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline Brookline to Sidney St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Brookline St Magazine St to Pearl St Magazine St to Pearl St Magazine St to Pearl St Magazine St ot Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Historic Utilites\D10\Franklin GREEN  Sewer Volumes\Catchment_D10\Green St  Sewer Volumes\Catchment_D10\Green St  _Other Historical Plans\Catchment D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49  sew-25-14  4706
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1999 1999 1995 1965 1920 1920 1991 UNK 1863 1875 1910	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline Brookline To Sidney St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Sidney St Magazine St Pearl St to Brookline St Magazine St to Pearl St Pearl St to Brookline St Magazine St to Pearl St Pearl St to Brookline St Magazine St to Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility San.&Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Water Utility  CMH7\CMH7cad.zip\Existing Survey - CAD\FRANKLIN GREEN  Sewer Volumes\Catchment_D10\Green St  Sewer Volumes\Catchment_D10\Green St  Sewer Volumes\Catchment_D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49  sew-25-14
Fairmont St Franklin St	2005 1870 1873 1873 1903 1911 1935 1999 1999 1965 1965 1920 1991 UNK 1863 1875 1910	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline Brookline to Sidney St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Brookline St Magazine St to Pearl St Magazine St to Pearl St Magazine St to Pearl St Magazine St ot Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Historic Utilites\D10\Franklin GREEN  Sewer Volumes\Catchment_D10\Green St  Sewer Volumes\Catchment_D10\Green St  _Other Historical Plans\Catchment D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49  sew-25-14  4706
Fairmont St Franklin St Green St Green St Green St Green St	2005 1870 1873 1873 1903 1911 1935 1999 1999 1965 1965 1920 1920 1991 UNK 1863 1875 1910 1910	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Western Ave to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Brookline St Magazine St to Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.	CMH3  Sewer Volumes\Catchment_D10\Franklin St Other Historical Plans\Catchment D10\Franklin St University Park University Park University Park Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Sewer Volumes\Catchment_D10\Green St Sewer Volumes\Catchment_D10\Green St Sewer Volumes\Catchment_D10\Green St Other Historical Plans\Catchment D10\Green St _Other Historical Plans\Catchment D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49  sew-25-14  4706  CentralSquare-Bryant1995-Sheet09
Fairmont St Franklin St Grean St Green St Green St Green St Green St	2005 1870 1873 1873 1903 1911 1935 1935 1999 1965 1920 1920 1920 1991 UNK 1863 1875 1910 1910	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Landsdowne St Hagazine St to Brookline Brookline to Sidney St Sidney St to Magazine St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Brookline St Magazine St to Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San. San. San. San. San. San. Utility Utility Utility Utility Utility San. San.&Stm. San.&Stm. San. Stm. San. Street Map	CMH3  Sewer Volumes\Catchment_D10\Franklin St Other Historical Plans\Catchment D10\Franklin St University Park University Park University Park Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Utility Records\Historic Utilites\D10\Franklin St Sewer Volumes\Catchment_D10\Green St Sewer Volumes\Catchment_D10\Green St Sewer Volumes\Catchment_D10\Green St Other Historical Plans\Catchment D10\Green St Other Historical Plans\Catchment D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-148  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49  sew-25-14  4706  CentralSquare-Bryant1995-Sheet10
Fairmont St Franklin St Green St Green St Green St Green St	2005 1870 1873 1873 1903 1911 1935 1999 1999 1996 1920 1991 UNK 1863 1875 1910 1990 1995 1996 1999	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Landsdowne St Sidney St to Brookline Brookline Place Magazine St to River St Pearl St to Magazine St Sidney St to Blanche st Pearl St to Sidney St Pearl St to Sidney St Magazine St to Pearl St Dearl St to Brookline St Magazine St to Pearl St Magazine St to Pearl St Dearl St to Brookline St Magazine St to Pearl St Dearl St to Brookline St Dearl St to Brookline St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Stm. San.&Stm.	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Water Utility  CMH7\CMH7cad.zip\Existing Survey - CAD\FRANKLIN GREEN  Sewer Volumes\Catchment_D10\Green St  Sewer Volumes\Catchment_D10\Green St  _Other Historical Plans\Catchment D10\Green St	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-21-03  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49  sew-25-14  4706  CentralSquare-Bryant1995-Sheet10  UniversityParkAsbuilt2007
Fairmont St Franklin St Grean St Green St	2005 1870 1873 1873 1903 1911 1935 1999 1999 1996 1990 UNK 1863 1875 1910 1991 1995	Allston St to Fairmont St Pleasant St to Magazine St Pearl St to Brookline St Brookline St to Sidney St Magazine St to Pearl St Sidney St to Landsdowne St Blanche St to Landsdowne St Magazine St to Brookline Brookline to Sidney St Sidney St to Landsdowne St Sidney St to Landsdowne St Sidney St to Brookline Brookline to Sidney St Sidney St to Brookline Place Magazine St to River St Pearl St to Magazine St Sidney St to Blanche st Pearl St to Sidney St  Pearl St to Brookline St Magazine St to Pearl St Pearl St to Brookline St Magazine St to Pearl St Sidney St to Brookline St Magazine St to Pearl St Magazine St to Pearl St Dearl St to Brookline St Magazine St to Pearl St Dearl St to Brookline St Landsdowne St Dearl St to Brookline St Sidney St to Landsdowne St Dearl St to Magazine St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility Utility San.&Stm. Utility	CMH3  Sewer Volumes\Catchment_D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  _Other Historical Plans\Catchment D10\Franklin St  University Park  University Park  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D10\Franklin St  Utility Records\Historic Utilites\D10\Franklin GREEN  Sewer Volumes\Catchment_D10\Green St  Sewer Volumes\Catchment_D10\Green St  _Other Historical Plans\Catchment D10\Green St  _Other Historical Plans\Catchment D10\Green St  University Park  Utility Records\Gas Utility	AsBuilt_10.25.05  sew-04-41  sew-06-32  sew-06-33  sew-24-26  6873 (1)  6919  UniversityParkAsbuilt2007  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_105  CambridgeGasCo_1965Atlas_106  HUA-149  WaterAtlas_1991_D7  PRELIMINARY FRANKLIN GREEN  sew-01-41  sew-08-49  sew-25-14  4706  CentralSquare-Bryant1995-Sheet10  UniversityParkAsbuilt2007  CambridgeGasCo_1965Atlas_106

Grove Ave	1896	Putnam Ave to Allston St	San.	Sewer Volumes\Catchment_D12\Grove Ave	sew-18-38
Grove Ave	UNK	Putnam Ave to Allston St	Utility	Utility Records\Historic Utilites\D12\Grove Ave	HUA-179
Grove Ave	UNK	Allston St to Putnam Ave	San.&Stm.	Cambridgeport Roadways	Proposed
Hamilton St	1938	Magazine St to Pearl St	San.	_Other Historical Plans\Catchment D12\Hamilton St	6964
Hamilton St	1884	Magazine St to Brookline	San.	Sewer Volumes\Catchment D12\Hamilton St	sew-01-14
Hamilton St	1891	Brookline St ot Sidney St	San.&Stm.	Sewer Volumes\Catchment D12\Hamilton St	sew-15-40
Hamilton St	1912	Magazine St to Pearl St	San.	Sewer Volumes\Catchment D12\Hamilton St	sew-25-30
Hamilton St	UNK	Magazine St to Sidney St	Utility	Utility Records\Comcast Utility	377-530
Hamilton St	1920	Magazine St to Sidney St	Utility	Utility Records\Historic Utilites\D12\Hamilton St	HUA-180
				, , , , , , , , , , , , , , , , , , , ,	
Hamilton St	2000	Magazine St	San.&Stm.	CMH2	18
Hamilton St	2000	Magazine St	San.&Stm.	CMH2	c_05_asbuilt_dpw - Shortcut
				CMH7\CMH7cad.zip\Existing Survey - CAD\HAMILTON	
Hamilton St	UNK	Brookline St to Sidney St	San.&Stm.	STREET	PRELIMINARY HAMILTON STREET
Hamilton St	1973	Pearl St ot Brookline St	San.&Stm.	Maguire Drawings\Hamilton St	Phase01Contract01Sht07
Henry St	2000	Sidney St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003_48-Drain
Henry St	1886	Brookline St to Sidney St	San.	Sewer Volumes\Catchment_D12\Hamilton St	sew-12-41
Henry St	1888	Sidney St to Waverly St	San.	Sewer Volumes\Catchment D12\Hamilton St	sew-13-42
Henry St	1895	Brookline St to Sidney St	Utility	Utility Records\Historic Utilites\D12\Henry St	HUB-069
Henry St	UNK	Brookline St to Sidney St	San.&Stm.	Cambridgeport Roadways	Proposed
Henry St	UNK	Brookline St to Sidney St	San.&Stm.	Cambridgeport Roadways	Survey
		·		~	•
Inman St	1870	Main St to Bishop Allen Dr.	San.&Stm.	_Other Historical Plans\Catchment D10\Inman St	sew-05-33
Inman St	2008	Mass Ave to Bishop Allen Dr.	San.&Stm.	_Other Historical Plans\Catchment D10\Inman St	CMH4-Asbuilt_C11 (1)
Inman St	1920	Mass Ave to Broadway St	Utility	Utility Records\Historic Utilites\D10\Inman St	HUA-253
Kelly Rd		Pleasant St to Magazine St	San.&Stm.	_Other Historical Plans\Catchment D12\Kelly Rd	7031
Kelly Rd	1872	Pleasant St to Magazine St	San.	Sewer Volumes\Catchment_D12\Kelly Rd	sew-06-44
Kelly Rd	UNK	Pleasant St to Magazine St	Utility	Utility Records\Comcast Utility	377-530
Kelly Rd	1965	Magazine St to Pleasant St	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_104
Kelly Rd	2005	Pleasant St to Magazine St	San.&Stm.	Pleasant St to Magazine St	AsBuilt_10.25.05
Kelly Rd	1974	River St to Pleasant St	San.&Stm.	Maguire Drawings\Kelly Rd	8 8
Lawrence St	1897	Magazine St to Pearl St	San.	Sewer Volumes\Catchment D12\Lawrence St	sew-09-50
Lawrence St	UNK	-		, _ ,	377-530
		Magazine St to Pearl St	Utility	Utility Records\Comcast Utility	
Lawrence St	1920	Magazine St to Pearl St	Utility	Utility Records\Historic Utilites\D12\Lawrence St	HUA-164
Lopez St	1873	Pearl St to Brookline St	San.&Stm.	Sewer Volumes\Catchment_D10\Lopez St	sew-07-30
Lopez St	UNK	Pearl St to Brookline St	Utility	Utility Records\Comcast Utility	377-530
Lopez St	1965	Brookline St to Pearl St	Utility	Utility Records\Gas Utility	Brookline St Gas
Lopez St	1920	Pearl St to Brookline St	Utility	Utility Records\Historic Utilites\D10\Lopez St	HUA-102
Lopez St	1991	Pearl St to Brookline St	Utility	Utility Records\Water Utility	WaterAtlas_1991_D7
Lopez St	1974	Brookline St to Pearl St	San.&Stm.	Maguire Drawings\Lopez St	4
Magazine St	1939	Hamilton St to Perry St	San.	Other Historical Plans\Catchment D12\Magazine St	6990-C
Magazine St	1939	Perry St to Franklin St	San.	Other Historical Plans\Catchment D12\Magazine St	6990D
Magazine St	1884	Allston St to Lake St	San.	Sewer Volumes\Catchment_D12\Magazine St	sew-01-13
_	1896		San.		
Magazine St		Franklin St to Cottage St		Sewer Volumes\Catchment_D12\Magazine St	sew-03-02
Magazine St	1866	Park St to Cottage St	San.	Sewer Volumes\Catchment_D12\Magazine St	sew-03-03
Magazine St	UNK	Florence St to Upton St	Utility	Utility Records\Comcast Utility	377-530
Magazine St	1929	Lawrence St to Cottage St	Utility	Utility Records\Electric Utility	05_Page_77
Magazine St	1927	Cottage St to Auburn St	Utility	Utility Records\Electric Utility	05_Page_78
Magazine St	1965	Fairmont St to Cottage St	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_104
Magazine St	1965	Cottage St to Mass Ave	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_106
Magazine St	1920	Kelly Rd to River St	Utility	Utility Records\Historic Utilites\D12\Magazine St	HUA-103
Magazine St	1920	Florence St to Lake St	Utility	Utility Records\Historic Utilites\D12\Magazine St	HUA-104
				Utility Records\Historic Utilites\D12\Magazine St	HUB-061
Magazine St	1895	Upton St to Franklin St	Utility		
Magazine St	1991	Perrty St to Mass Ave	Utility	Utility Records\Water Utility	WaterAtlas_1991_D6
Magazine St	2000	Prince St to Hamilton St	San.&Stm.	CMH2	18
Magazine St	2000	Prince St to Hamilton St	San.&Stm.	CMH2	c_05_asbuilt_dpw - Shortcut
Magazine St	2005	Allston to Perry St	San.&Stm	CMH3	AsBuilt_10.25.05
Mass Ave	1866	Lee St to Inman St	San.&Stm.	Sewer Volumes\Catchment_D10\Massachusetts Ave	sew-03-05
Mass Ave	1852	Prospect St to Douglass St	San.&Stm.	Sewer Volumes\Catchment_D10\Massachusetts Ave	sew-02-33
Mass Ave	1888	Inman St to Essex St	San.&Stm.	Sewer Volumes\Catchment_D10\Massachusetts Ave	sew-14-43
Mass Ave	1888	Pearl St to Columbia St	San.&Stm.	Sewer Volumes\Catchment_D10\Massachusetts Ave	sew-14-44
Mass Ave	1900	Columbia St to Sidney St	San.&Stm.	Sewer Volumes\Catchment_D10\Massachusetts Ave	sew-20-23
Mass Ave	1910	Essex St to Douglass St	San.&Stm.	Sewer Volumes\Catchment_D10\Massachusetts Ave	sew-25-01
Mass Ave	1910	Bigelow St to Essex St	San.&Stm.	Sewer Volumes\Catchment D10\Massachusetts Ave	sew-25-02
Mass Ave	1910	Hancock St to Bigelow St	San.&Stm.	Sewer Volumes\Catchment D10\Massachusetts Ave	sew-25-02
Mass Ave		•		, - ,	
-	1858	Mass Ave to Bishop Allen Dr.	San.&Stm.	Sewer Volumes\Catchment_D10\Massachusetts Ave	sew-02-07
Mass Ave	2008	Clinton St to Bigelow St.	San.&Stm.	_Other Historical Plans\Catchment D10\Mass Ave	CMH4-Asbuilt_C01B
Mass Ave	1910	Norfolk St to Douglass St		MBTA\Mass Ave	3, 10
Mass Ave	UNK	Temple St to Essex St	Utility	Utility Records\Electric Utility	06_Page_11
Mass Ave	1984	Temple St to Prospect St	Utility	Utility Records\Electric Utility	11_Page_09
Mass Ave	1895	Norfolk St to Blanche St	Utility	Utility Records\Historic Utilites\D10\Massachusetts Ave	HUB-060
Mass Ave	1895	Hancock St to Inman St	Utility	Utility Records\Historic Utilites\D10\Massachusetts Ave	HUB-074
Mass Ave	1895	Hancock St to Inman St	Utility	Utility Records\Historic Utilites\D10\Massachusetts Ave	HUB-207
IVIASS AVE	1991	Pearl St to Green St	Utility	Utility Records\Water Utility	WaterAtlas_1991_D7
			San.&Stm.	Sewer Volumes\Catchment D10\Norfolk St	sew-02-19
Mass Ave			Jan. aJlii.		
Mass Ave Norfolk St	1856	Washington St to Suffolk St	Can O.C+	Cowor Volumes Catchment D10 Newfall Ct	co 04 40
Mass Ave Norfolk St Norfolk St	1856 1870	Suffolk St to Harvard St	San.&Stm.	Sewer Volumes\Catchment_D10\Norfolk St	sew-04-40
Mass Ave Norfolk St	1856		San.&Stm. San.&Stm.	Sewer Volumes\Catchment_D10\Norfolk St Sewer Volumes\Catchment_D10\Norfolk St	sew-04-40 sew-18-12
Mass Ave Norfolk St Norfolk St Norfolk St	1856 1870 1896	Suffolk St to Harvard St Mass Ave to Worchester St	San.&Stm.	Sewer Volumes\Catchment_D10\Norfolk St	sew-18-12
Mass Ave Norfolk St Norfolk St	1856 1870	Suffolk St to Harvard St	San.&Stm.	_	

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Norfolk St	1995	Mass Ave to Richan Allen Dr	Stroot Man	Other Historical Plans\Catchment D10\Norfolk St	CentralSquare-Bryant1995-Sheet14
Norfolk St	1995	Mass Ave to Bishop Allen Dr.  Mass Ave to Worchester St	Utility	Utility Records\Historic Utilites\D10\Norfolk St	HUA-282
Norfolk St	1895	Harvard St to Bishop Allen Dr	Utility	Utility Records\Historic Utilites\D10\Norfolk St	HUA-057
Norfolk St	1895	Mass Ave to Bishop Allen Dr.	Utility	Utility Records\Historic Utilites\D10\Norfolk St	HUB-060
Pacific St	1899	Brookline St to Sidney St	San.&Stm.	Sewer Volumes\Catchment D10\Pacific St	sew-20-20
Pacific St	1899	Albany St to Vassar St.	San.&Stm.	Sewer Volumes\Catchment D10\Pacific St	sew-20-20
Pacific St	UNK	Brookline St	Com.	Other Historical Plans\Catchment D10\Pacific St	Sew-20-21 Sew-20-21 Sew-20-21
Pacific St	1999	Sidney St to Brookline Place	San.&Stm.	University Park	UniversityParkAsbuilt2007
Pacific St	1987	Brookline St	Utility	Utility Records\Electric Utility	08_Page_026
Pacific St	1895	Pacific St	Utility	Utility Records\Historic Utilites\D10\Albany St	HUB-044
Pacific St	1920	Albany St to Sidney St	Utility	Utility Records\Historic Utilites\D10\Aidany St	HUA-157
Pacific St	1895	Sidney St to Albany St	Utility	Utility Records\Historic Utilites\D10\Pacific St	HUB-044
Pacific St	1895	Brookline St to Sidney St	Utility	Utility Records\Historic Utilites\D10\Pacific St	HUB-063
Pacific St	1991	Brookline St to Albany St	Utility	Utility Records\Water Utility	
		· · · · · · · · · · · · · · · · · · ·	San.&Stm.	Other Historical Plans\Catchment D10\Pacific St	WaterAtlas_1991_D7
Pacific St	1999 2000	Sidney St to Brookline Place	San.&Stm.	-	30 Pilgrim Street - Site Plan 19990325
Pacific St Pacific St	2000	Waverly St to Sidney St Waverly St to Sidney St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	70PacificSt_ExistingConditions20001122
				_Other Historical Plans\Catchment D10\Pacific St	70PacificStreet_SitePlan20010124
Pacific St	2000	Sidney St to Landsdowne St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	88SidneySt_SitePlan C1 20000317
Pacific St	2000	Sidney St to Landsdowne St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	88SidneySt_SitePlan C2 20001120
Pacific St	2000	Sidney St to Landsdowne St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	88SidneySt_SitePlan C3 20001120
Pacific St	2000	Sidney St to Landsdowne St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	88SidneySt_UtilityPlan C5 20001120
Pacific St	2000	Sidney St to Landsdowne St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	88SidneySt-UtilityPlan-20000317
De -161 - C:	2002	Landsdowne St to Purrington	Cam 0.C:	Other Historical Plans Catalana (200) 200	1001 and adaptive 114/14 (14-2)   00000715
Pacific St	2003	St Navady State Albany St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	100Landsdowne_UtilitySitePlan20030713
Pacific St	UNK	Waverly St to Albany St	Stm.	_Other Historical Plans\Catchment D10\Pacific St	235AlbanySt_GradingDrainageSitePlan20061108
Desifi- Ct	2040	Cidnos China Borrello at a Ci	Cam 0 Ct	Other Historical Plans Catalana at D40 Basis	ForestCity-Apr2000-U02-
Pacific St	2010	Sidney St to Purrington St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	PacificPilgrimStExistingConditions
Pacific St	2009	Albany St	San.&Stm.	_Other Historical Plans\Catchment D10\Pacific St	SurfaceUtilityAsbuilt_AlbanyPacific20090605
Pacific St	UNK	Sydney St/Landsdowne St	San.&Stm.	Maguire Drawings\Pacific St	PacificStreetSewer1993-Sht02
Pacific St	UNK	Sidney St to Landsdowne St	San.&Stm.	Cambridgeport Roadways	Survey
Pacific St	2001	Waverly St to Vasser St	San.&Stm.	Cambridgeport Roadways	ALLOOF\$
Pacific St	2001	Albany St to Vassar St.	San.&Stm.	MIT Utility Drawings	MIT Utility_1_2016
Pacific St	2001	Sidney St to Vassar St	San.&Stm.	MIT Utility Drawings	MIT Utility_2_2016
Pearl St	1856	Mass Ave to Franklin St	Stm.	Sewer Volumes\Catchment_D10\Pearl St	sew-02-06
Pearl St	1910	Green St to Mass Ave	San.&Stm.	Sewer Volumes\Catchment_D10\Pearl St	sew-25-14
Pearl St	2016	William St to Franklin St	Stm.	_Other Historical Plans\Catchment D12\Pearl St	Ch90_Cont19_201601_Sht12
Pearl St	1884	Hamilton St to Perry St	San.	Sewer Volumes\Catchment_D12\Pearl St.	sew-01-11
Pearl St	1869	Decatur St to Auburn St	San.	Sewer Volumes\Catchment_D12\Pearl St.	sew-03-35
Pearl St	1872	Hamilton St to Walnut St	San.	Sewer Volumes\Catchment_D12\Pearl St.	sew-06-13
Pearl St	1912	Hamilton St to Erie St	San.&Stm.	Sewer Volumes\Catchment_D12\Pearl St.	sew-26-22
Pearl St	1924	Erie St to Cottage St	San.&Stm.	Sewer Volumes\Catchment_D12\Pearl St.	sew-27-01
Pearl St	UNK	Putnam Ave to William St	Utility	Utility Records\Comcast Utility	377-530
Pearl St	1965	Cottage St to Mass Ave	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_106
Pearl St	1920	Franklin St to Cottage St	Utility	Utility Records\Historic Utilites\D10\Pearl St	HUA-108
Pearl St	1991	Decatur St to Mass Ave	Utility	Utility Records\Water Utility	WaterAtlas_1991_D7
Donal Ch	1.1811/		C 0 Ct	CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR	
Pearl St	UNK 1973			VALENTINE TUDOD FAMILY CREDIDARIS	PRELIMINARY DECATUR VALENTINE TUDOR EMILY
Pearl St		Corporal Mcternan to Perry St		VALENTINE TUDOR EMILY SPERIDAKIS	SPERIDAKIS
Pearl St		Speridakis St to William St	San.&Stm.	Maguire Drawings\Pearl St	SPERIDAKIS 2
Danes DI	1973	Speridakis St to William St Auburn St to Franklin St	San.&Stm. San.&Stm.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St	SPERIDAKIS 2 3
Percy Pl	1973 1920	Speridakis St to William St Auburn St to Franklin St Essex St	San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl	SPERIDAKIS  2  3  HUA-286
Percy Pl	1973 1920 1895	Speridakis St to William St Auburn St to Franklin St Essex St Essex St	San.&Stm. San.&Stm. Utility Utility	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl	SPERIDAKIS  2  3  HUA-286  HUB-057
Percy Pl Perry St	1973 1920 1895 1874	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St	San.&Stm. San.&Stm. Utility Utility San.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St.	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08
Percy Pl Perry St Perry St	1973 1920 1895 1874 UNK	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St	San.&Stm. San.&Stm. Utility Utility San. Utility	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530
Percy PI Perry St Perry St Perry St	1973 1920 1895 1874 UNK 1965	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility Utility	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530  Brookline St Gas
Percy PI Perry St Perry St Perry St Perry St	1973 1920 1895 1874 UNK 1965	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Valson St Erie St to Watson St Magazine St to Pearl St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility Utility Utility	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530  Brookline St Gas  HUA-163
Percy Pl Perry St Perry St Perry St Perry St Perry St Peters St	1973 1920 1895 1874 UNK 1965 1920	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Magazine St to Australia St Magazine St to Pearl St Putnam Ave to Allston St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility Utility Utility San.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Sewer Volumes\Catchment_D12\Perry St Sewer Volumes\Catchment_D12\Pearl St.	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530  Brookline St Gas  HUA-163  sew-20-01
Percy Pl Perry St Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St	1973 1920 1895 1874 UNK 1965 1920 1896 1874	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Magazine St to Allston St Sidney St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility Utility Utility San. San.&Stm.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St Sewer Volumes\Catchment_D12\Pearl St. Sewer Volumes\Catchment_D10\Pilgrim St	SPERIDAKIS  2 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31
Percy PI Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St Pilgrim St	1973 1920 1895 1874 UNK 1965 1920 1896 1874	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility Utility San. San.&Stm.	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St	SPERIDAKIS  2 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02
Percy PI Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St Pilgrim St Pilgrim St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility San. Utility San. San.&Stm. San.&Stm.	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Peilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St	SPERIDAKIS  2 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-20-33
Percy PI Perry St Perry St Perry St Perry St Peters St Peters St Pilgrim St Pilgrim St Pilgrim St Pilgrim St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St Sidney St Sidney St Sidney St Sidney St August St to Sidney St Sidney to Landsowne St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility Utility Utility San. San.&Stm. San.&Stm. San.&Stm.	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Pilgrim St	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530  Brookline St Gas  HUA-163  sew-20-01  sew-08-31  sew-13-02  sew-20-33  sew-23-47
Percy PI Perry St Perry St Perry St Perry St Peters St Peters St Pilgrim St Pilgrim St Pilgrim St Pilgrim St Pilgrim St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St Sidney to Landsowne St Brookline to Landsowne St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St Sewer Volumes\Catchment_D12\Pearl St. Sewer Volumes\Catchment_D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530  Brookline St Gas  HUA-163  sew-20-01  sew-08-31  sew-13-02  sew-13-02  sew-20-33  sew-23-47  HUA-155
Percy PI Perry St Perry St Perry St Perry St Peters St Pilgrim St Pilgrim St Pilgrim St Pilgrim St Pilgrim St Pilgrim St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Magazine St to Pearl St Broakline St Brookline St Brookline St Sidney St Sidney St Sidney St Sidney St Landsowne St Brookline to Landsowne St Brookline St to Sidney St	San.&Stm. San.&Stm. Utility Utility Utility Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St Sewer Volumes\Catchment_D12\Pearl St. Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530  Brookline St Gas  HUA-163  sew-20-01  sew-08-31  sew-13-02  sew-20-33  sew-23-47  HUA-155  HUB-063
Percy PI Perry St Perry St Perry St Perry St Peters St Pilgrim St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1900 1906 1920 1895 UNK	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St Brookline St to Sidney St Brookline to Landsowne St Brookline to Landsowne St Brookline St to Sidney St Pleasant St to Magazine St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St	SPERIDAKIS  2 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-20-33 sew-23-47 HUA-155 HUB-063 377-530
Percy PI Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline to Landsowne St Brookline to Landsowne St Pleasant St to Magazine St Magazine St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility San.&Stm.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St Sewer Volumes\Catchment_D12\Pearl St. Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St	SPERIDAKIS  2 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-13-02 sew-20-33 sew-23-47 HUA-155 HUB-063 377-530 18
Percy PI Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St Prince St Prince St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Magazine St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Magazine St Magazine St Magazine St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility Utility San. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St Sewer Volumes\Catchment_D12\Pearl St. Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Comcast Utility CMH2 CMH2	SPERIDAKIS  2 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-20-33 sew-20-33 sew-20-347 HUA-155 HUB-063 377-530 18 c_05_asbuilt_dpw - Shortcut
Percy PI Perry St Perry St Perry St Perry St Perry St Petrers St Pilgrim St Prince St Prince St Prince St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Brookline St to Magazine St Magazine St Magazine St Pleasant St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility San.&Stm.	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Gomcast Utility  CMH2  CMH2  CMH2	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530  Brookline St Gas  HUA-163  sew-20-01  sew-8-31  sew-13-02  sew-20-33  sew-23-47  HUA-155  HUB-063  377-530  18  c_05_asbuilt_dpw - Shortcut
Percy PI Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St Prince St Prince St Prince St Prince St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1900 1906 1920 1895 UNK 2000 2000 2000	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Pleasant St Pleasant St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. Utility Utility San. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility Utility Utility Utility San.&Stm. San.&Stm.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Comcast Utility CMH2 CMH2 CMH2 CMH2	SPERIDAKIS  2  3  HUA-286  HUB-057  sew-08-08  377-530  Brookline St Gas  HUA-163  sew-20-01  sew-08-31  sew-13-02  sew-13-02  sew-20-33  sew-23-47  HUA-155  HUB-063  377-530  18  c_05_asbuilt_dpw - Shortcut  18
Percy PI Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St Prince St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Sidney St Sidney St Sidney St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Pleasant St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr.	San.&Stm. San.&Stm. Utility Utility Utility Utility San. San.&Stm. San.&Stm. Utility San. San.&Stm. Utility San. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility San. San.&Stm.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St Sewer Volumes\Catchment_D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Gomcast Utility CMH2 CMH2 CMH2 Sewer Volumes\Catchment_D10\Prospect St	SPERIDAKIS  2 3 4 40-286 40-286 40-80-80-8 377-530 8rookline St Gas 40-163 sew-20-01 sew-08-31 sew-13-02 sew-20-33 sew-23-47 40-155 40-40-63 377-530 18 c_05_asbuilt_dpw - Shortcut sew-09-29
Percy PI Perry St Perry St Perry St Perry St Peters St Peters St Pilgrim St Pilgrim St Pilgrim St Pilgrim St Pilgrim St Pince St Prince St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000 2000 1877	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Frie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St Sidney St Sidney St Sidney to Landsowne St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Magazine St Magazine St Pleasant St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr. Bishop Allen Drive	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. Utility Utility San. San.&Stm.	Maguire Drawings\Pearl St Maguire Drawings\Pearl St Maguire Drawings\Pearl St Utility Records\Historic Utilites\D10\Percy Pl Utility Records\Historic Utilites\D10\Percy Pl Sewer Volumes\Catchment_D12\Pearl St. Utility Records\Comcast Utility Utility Records\Gas Utility Utility Records\Gas Utility Utility Records\Historic Utilites\D12\Perry St Sewer Volumes\Catchment_D12\Pearl St. Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Sewer Volumes\Catchment_D10\Pilgrim St Utility Records\Historic Utilites\D10\Pilgrim St Utility Records\Comcast Utility CMH2 CMH2 CMH2 Sewer Volumes\Catchment_D10\Prospect St Sewer Volumes\Catchment_D10\Prospect St	SPERIDAKIS  2 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-20-33 sew-20-33 sew-23-47 HUA-155 HUB-063 377-530 18 c_05_asbuilt_dpw - Shortcut sew-09-29 sew-02-42
Percy PI Perry St Perry St Perry St Perry St Perry St Petrers St Pilgrim St Prince St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000 2000 1877 1857	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Magazine St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr. Bishop Allen Drive Mass Ave to Harvard St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. Utility Utility San. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Prospect St  Sewer Volumes\Catchment_D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St	SPERIDAKIS  2 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-20-33 sew-20-33 sew-23-47 HUA-155 HUB-063 377-530 18 c_05_asbuilt_dpw - Shortcut sew-09-29 sew-02-42 HUA-278
Percy PI Perry St Perry St Perry St Perry St Perry St Petrers St Pilgrim St Pince St Prince St Prince St Prince St Prince St Prince St Prince St Prospect St Prospect St Prospect St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000 2000 2000 2000 1877 1857	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Frie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr. Bishop Allen Drive Mass Ave to Broadway St St Paul St to Broadway St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility Utility San. San.&Stm. San.&Stm. Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility Utility Utility San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St	SPERIDAKIS  2 3 4 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-286 404-
Percy PI Perry St Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St Pince St Prince St Prince St Prince St Prince St Prospect St Prospect St Prospect St Prospect St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000 2000 2000 1877 1857 1920 1895	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr. Bishop Allen Drive Mass Ave to Harvard St St Paul St to Broadway St Mass Ave to Bishop Allen Dr.	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St	SPERIDAKIS  2 3 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-20-33 sew-20-33 sew-23-47 HUA-155 HUB-063 377-530 18 c_05_asbuilt_dpw - Shortcut 18 c_05_asbuilt_dpw - Shortcut sew-09-29 sew-02-42 HUA-278 HUB-056 HUB-056 HUB-059
Percy PI Perry St Perry St Perry St Perry St Perry St Petry St Petrers St Pilgrim St Pince St Prince St Prince St Prince St Prince St Prospect St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000 2000 1877 1857 1920 1895 1895 2000	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Pleasant St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr. Bishop Allen Drive Mass Ave to Harvard St St Paul St to Broadway St Mass Ave to Bishop Allen Dr. Sidney St to Waverly St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility San. San.&Stm. San.&Stm. Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Comcast Utility  CMH2  CMH2  CMH2  CMH2  Sewer Volumes\Catchment_D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St	SPERIDAKIS  2 3 3 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-20-33 sew-23-47 HUA-155 HUB-063 377-530 18 c_05_asbuilt_dpw - Shortcut 18 c_05_asbuilt_dpw - Shortcut sew-09-29 sew-02-42 HUA-278 HUB-056 HUB-059 CambridgeportRoadways-2003_69-Drain
Percy PI Perry St Perry St Perry St Perry St Perry St Petry St Petrers St Pilgrim St Pince St Prince St Prince St Prince St Prince St Prince St Prospect St	1973 1920 1895 1874 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000 2000 1877 1857 1920 1895 1895 1895 2000	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Pleasant St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr. Bishop Allen Drive Mass Ave to Bishop Allen Dr. Sidney St to Waverly St Flagg St to Waverly St Flagg St to Waverly St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Comcast Utility  CMH2  CMH2  CMH2  Sewer Volumes\Catchment_D10\Prospect St  Sewer Volumes\Catchment_D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Cambridgeport Roadway Improvements  CMH4	SPERIDAKIS  2 3 4 40-286 40-286 40-80-80-8 377-530 8rookline St Gas 40-163 5ew-20-01 5ew-20-01 5ew-20-33 5ew-20-33 5ew-20-33 5ew-23-47 40-155 40-163 377-530 18 c_05_asbuilt_dpw - Shortcut 18 c_05_asbuilt_dpw - Shortcut 5ew-09-29 5ew-02-42 40-278 40-278 40-59 CambridgeportRoadways-2003_69-Drain CMH4_FinalStampedRecDwgs_11-19-12
Percy PI Perry St Perry St Perry St Perry St Perry St Perry St Peters St Pilgrim St Pilgrim St Pilgrim St Pilgrim St Pilgrim St Pince St Prince St Prince St Prince St Prince St Prospect St	1973 1920 1895 1874 UNK 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000 1877 1857 1920 1895 1895 1895 2000 2009	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Frie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Pleasant St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr. Bishop Allen Drive Mass Ave to Broadway St Mass Ave to Warvard St St Paul St to Broadway St Mass Ave to Bishop Allen Dr. Sidney St to Waverly St Flagg St to Waverly St Flagg St to Kinnaird St Magazine St to Pearl St	San.&Stm. San.&Stm. Utility Utility Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility Stm. Stm.	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D12\Pearl St.  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Comcast Utility  CMH2  CMH2  CMH2  CMH2  Sewer Volumes\Catchment_D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Cambridgeport Roadway Improvements  CMH4  Sewer Volumes\Catchment_D12\Putnam Ave	SPERIDAKIS  2 3 4 HUA-286 HUB-057 sew-08-08 377-530 Brookline St Gas HUA-163 sew-20-01 sew-08-31 sew-13-02 sew-23-347 HUA-155 HUB-063 377-530 18 c_05_asbuilt_dpw - Shortcut 18 c_05_asbuilt_dpw - Shortcut sew-09-29 sew-02-42 HUA-278 HUB-056 HUB-056 HUB-059 CambridgeportRoadways-2003_69-Drain CMH4_FinalStampedRecDwgs_11-19-12 sew-08-39
Percy PI Perry St Perry St Perry St Perry St Perry St Petry St Petrers St Pilgrim St Pince St Prince St Prince St Prince St Prince St Prince St Prospect St	1973 1920 1895 1874 1965 1920 1896 1874 1874 1900 1906 1920 1895 UNK 2000 2000 2000 2000 1877 1857 1920 1895 1895 1895 2000	Speridakis St to William St Auburn St to Franklin St Essex St Essex St Magazine St to Pearl St Magazine St to Pearl St Erie St to Watson St Magazine St to Pearl St Putnam Ave to Allston St Sidney St Brookline St Brookline St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Sidney to Landsowne St Brookline St to Sidney St Pleasant St to Magazine St Magazine St Magazine St Pleasant St Pleasant St Pleasant St Mass Ave to Bishop Allen Dr. Bishop Allen Drive Mass Ave to Bishop Allen Dr. Sidney St to Waverly St Flagg St to Waverly St Flagg St to Waverly St	San.&Stm. San.&Stm. Utility Utility San. Utility Utility Utility San. San.&Stm. San.&Stm. Utility Utility San. San.&Stm. San.&Stm. San.&Stm. Utility	Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Maguire Drawings\Pearl St  Utility Records\Historic Utilites\D10\Percy Pl  Utility Records\Historic Utilites\D10\Percy Pl  Sewer Volumes\Catchment_D12\Pearl St.  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Perry St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Sewer Volumes\Catchment_D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Historic Utilites\D10\Pilgrim St  Utility Records\Comcast Utility  CMH2  CMH2  CMH2  Sewer Volumes\Catchment_D10\Prospect St  Sewer Volumes\Catchment_D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Utility Records\Historic Utilites\D10\Prospect St  Cambridgeport Roadway Improvements  CMH4	SPERIDAKIS  2 3 4 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 377-530 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-286 40-2

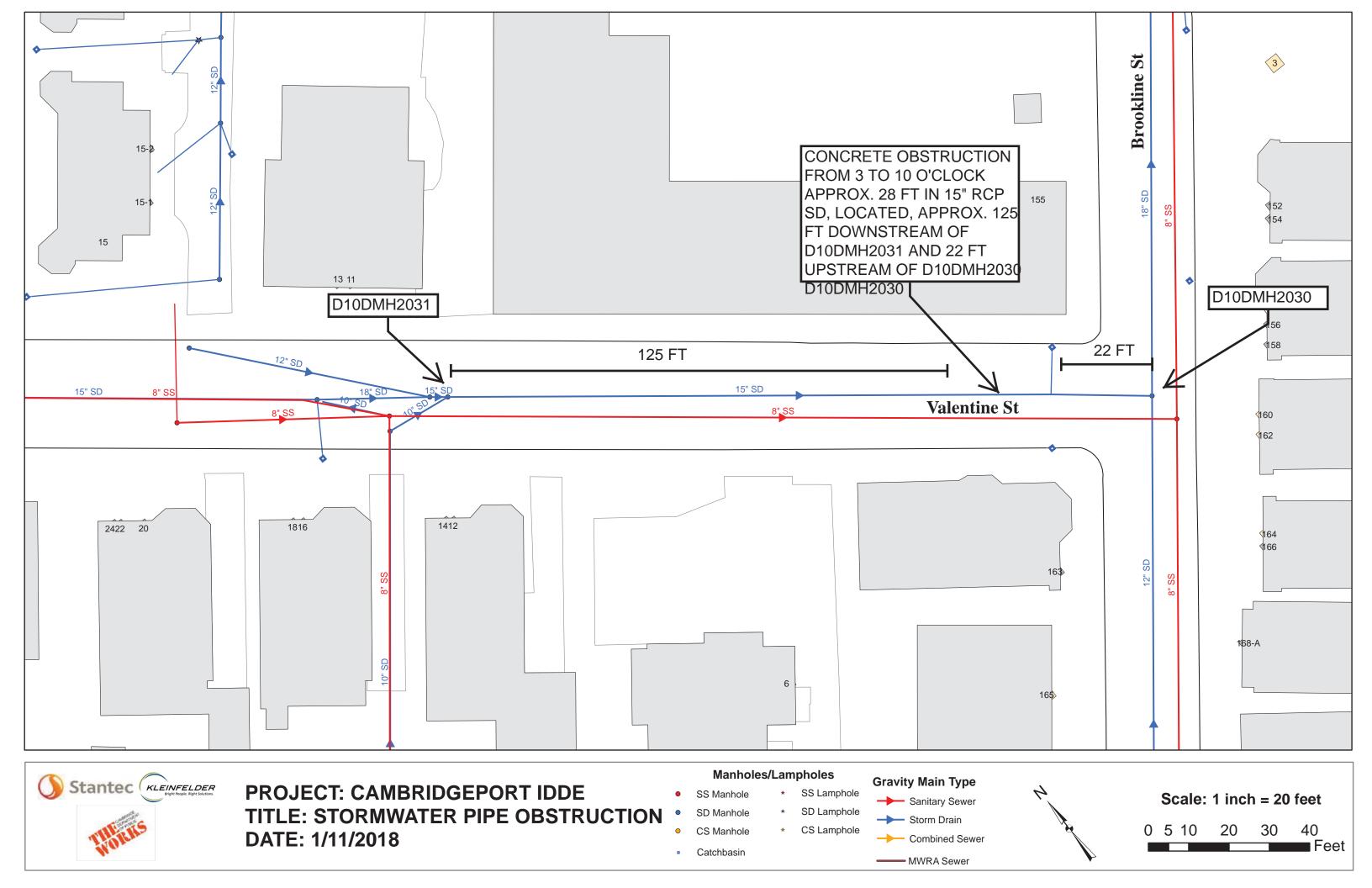
Putnam Ave	1885	Pearl St to Brookline St	San.	Sewer Volumes\Catchment_D12\Putnam Ave	sew-12-19
Putnam Ave	1885	Brookline St to Sidney St	San.	Sewer Volumes\Catchment_D12\Putnam Ave	sew-12-33
Putnam Ave	1920	River St to Magazine St	Utility	Utility Records\Historic Utilites\D12\Putnam Ave	HUA-142
Putnam Ave	1895	Brookline St to Sidney St	Utility	Utility Records\Historic Utilites\D12\Putnam Ave	HUB-069
Putnam Ave	UNK	Sidney St to Grove Ave	San.&Stm.	Cambridgeport Roadways	Proposed
Putnam Ave	UNK	Sidney St to Waverly St	San.&Stm.	Cambridgeport Roadways	Survey
Putnam Ct	1895	Putnam Ave	Utility	Utility Records\Historic Utilites\D12\Putnam Ct	HUB-069
River St	1894	Pleasant St to Franklin St	San.&Stm.	Sewer Volumes\Catchment_D10\River St	sew-17-24
River St	1857	Pleasant St to Western Ave	Stm.	Sewer Volumes\Catchment_D10\River St	sew-02-40
River St	1894	Franklin St to Mass Ave	San.	Sewer Volumes\Catchment_D10\River St	sew-17-25
River St	1935	William St	San.	_Other Historical Plans\Catchment D10\River St	6933
River St	1986	Auburn St to Green St		_Other Historical Plans\Catchment D10\River St	CentralSquare1986_TopoSitePlan
River St	1927	Cottage St to Auburn St	Utility	Utility Records\Electric Utility	09_Page_008
River St	1895	Cottage St to Franklin St	Utility	Utility Records\Historic Utilites\D10\River St	HUB-061
Salem St	1877	Watson St. to Auburn St.	San.	Sewer Volumes\Catchment_D10\Salem St	sew-09-32
Salem St	1920	Auburn St to Watson St	Utility	Utility Records\Historic Utilites\D10\Salem St	HUA-149
Salem St	1895	Watson St to Auburn St	Utility	Utility Records\Historic Utilites\D10\Salem St	HUB-062
Salem St	1974	Auburn St to Watson St	San.&Stm.	Maguire Drawings\Salem St	4
Sidney St	1870	Front St to Auburn St	San	Sewer Volumes\Catchment_D10\Sidney St	sew-05-30
Sidney St	1881	Green St to Pilgrim St	San.	Sewer Volumes\Catchment_D10\Sidney St	sew-10-14
Sidney St	1874	Pilgrim St	San.	Sewer Volumes\Catchment_D10\Sidney St	sew-08-31
Sidney St	1870	Front St to Auburn St	San.&Stm.	Sewer Volumes\Catchment_D10\Sidney St	sew-05-30
Sidney St	1900	Pacific St to Auburn St	San.&Stm.	Sewer Volumes\Catchment_D10\Sidney St	sew-20-28
Sidney St	1900	Auburn St to Mass Ave	San.	Sewer Volumes\Catchment_D10\Sidney St	sew-20-29
Sidney St	1906	Erie St to Pacific St	San.&Stm.	Sewer Volumes\Catchment_D10\Sidney St	sew-23-45
Sidney St	1881	Pacific St to Mass Ave.	Utility	_Other Historical Plans\Catchment D10\Sydney St	6562
Sidney St	UNK	Landsdowne St	San.	_Other Historical Plans\Catchment D10\Sydney St	PacificStreetSewer1993-Sht02 (2)
Sidney St	2000	Henry St to Chestnut St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003 50-Drain
Sidney St	2000	Putnam Ave to Allston St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003 52-Drain
Sidney St	2000	Hamilton St to Merriam St	San.&Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003_54-Drain
Sidney St	2000	Emily St to Pacific St	San.&Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003 56-Drain
Sidney St	2000	Erie St	San.&Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003_58-Drain
Sidney St	1882	Henry St to Putnam St	San.	Sewer Volumes\Catchment D12\Sidney St	sew-10-37
Sidney St	1891	Allston St to Erie St	San.	Sewer Volumes\Catchment D12\Sidney St	sew-15-39
Sidney St	1902	Hamilton St to Erie St	San.&Stm.	Sewer Volumes\Catchment D12\Sidney St	sew-21-03
Sidney St	1906	Erie St to Pacific St	San.&Stm.	Sewer Volumes\Catchment_D12\Sidney St	sew-23-45
Sidney St	1999	Mass Ave to Franklin St	San.&Stm.	University Park	UniversityParkAsbuilt2007
Sidney St	UNK	Erie St to Tudor St	Utility	Utility Records\Comcast Utility	377-530
Sidney St	1920	Mass Ave to Emily St	Utility	Utility Records\Historic Utilites\D10\Sidney St	HUA-114
Sidney St	1895	Tudor St to Franklin St	Utility	Utility Records\Historic Utilites\D10\Sidney St	HUB-063
Sidney St	1920	Putnam Ave to Erie St	Utility	Utility Records\Historic Utilites\D12\Sidney St	HUA-115
Sidney St	1895	Henry St to Putnam Ave	Utility	Utility Records\Historic Utilites\D12\Sidney St	HUB-069
Sidney St	1991	·			
				UTILITY RECORDS WATER UTILITY	WaterAtlas 1991 D7
		Tudor St to Mass Ave Pacific St to Waverly St	Utility San.&Stm.	Utility Records\Water Utility  Cambridgeport Roadways	WaterAtlas_1991_D7 Proposed
Sidney St	UNK	Pacific St to Waverly St	San.&Stm.	Cambridgeport Roadways	Proposed
Sidney St Sidney St	UNK UNK	Pacific St to Waverly St Pacific St to Waverly St	San.&Stm. San.&Stm.	Cambridgeport Roadways Cambridgeport Roadways	Proposed Survey
Sidney St Sidney St Sidney St	UNK UNK 2001	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St	San.&Stm. San.&Stm. San.&Stm.	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings	Proposed Survey MIT Utility_2_2016
Sidney St Sidney St Sidney St Speridakis Ter	UNK UNK 2001 1905	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St	San.&Stm. San.&Stm. San.&Stm. San.	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter	Proposed Survey MIT Utility_2_2016 sew-23-33
Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter	UNK UNK 2001 1905 UNK	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pearl St	San.&Stm. San.&Stm. San.&Stm. Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530
Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter	UNK UNK 2001 1905	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter	Proposed Survey MIT Utility_2_2016 sew-23-33
Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter	UNK UNK 2001 1905 UNK 1920	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pearl St Pearl St	San.&Stm. San.&Stm. San.&Stm. Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181
Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter	UNK UNK 2001 1905 UNK 1920 1895	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pearl St Pearl St Pearl St Pearl St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY
Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter	UNK UNK 2001 1905 UNK 1920	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pearl St Pearl St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065
Sidney St Sidney St Sidney St Speridakis Ter	UNK 2001 1905 UNK 1920 1895 UNK 1899	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pearl St Pearl St Pearl St Pearl St Pearl St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. San.	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24
Sidney St Sidney St Sidney St Speridakis Ter St. Paul St. St. Paul St.	UNK UNK 2001 1905 UNK 1920 1895 UNK 1899	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Prearl St Pearl St Prospect St Prospect St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. San. Utility Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter VALENTINE TUDOR EMILY SPERIDAKIS	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS
Sidney St Sidney St Sidney St Speridakis Ter	UNK 2001 1905 UNK 1920 1895 UNK 1899	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St to Brookline St Prospect St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. San.	Cambridgeport Roadways  Cambridgeport Roadways  MIT Utility Drawings  Sewer Volumes\Catchment_D10\Speridakis Ter  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR  VALENTINE TUDOR EMILY SPERIDAKIS  Sewer Volumes\Catchment_D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237
Sidney St Sidney St Sidney St Speridakis Ter St. Paul St. St. Paul St. Talbot St	UNK UNK 2001 1905 UNK 1920 1895 UNK 1899 1920 1895 1879	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Alston St to Brookline St Prospect St Prospect St Allston St to Putnam Ave	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. San. Utility Utility San.&Stm. Utility San.	Cambridgeport Roadways  Cambridgeport Roadways  MIT Utility Drawings  Sewer Volumes\Catchment_D10\Speridakis Ter  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR  VALENTINE TUDOR EMILY SPERIDAKIS  Sewer Volumes\Catchment_D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Sewer Volumes\Catchment_D12\Talbot St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45
Sidney St Sidney St Sidney St Speridakis Ter St. Paul St. St. Paul St.	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Prearl St Pearl St Pearl St to Brookline St Prospect St Prospect St Prospect St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. San. Utility Utility Utility Utility	Cambridgeport Roadways  Cambridgeport Roadways  MIT Utility Drawings  Sewer Volumes\Catchment_D10\Speridakis Ter  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR  VALENTINE TUDOR EMILY SPERIDAKIS  Sewer Volumes\Catchment_D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056
Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. Talbot St Talbot St	UNK UNK 2001 1905 UNK 1920 1895 UNK 1899 1920 1895 1879	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Alston St to Brookline St Prospect St Prospect St Allston St to Putnam Ave Waverly St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility Utility San.&Stm. San. Utility San.&Stm. San. Utility San. San. Utility San. San.	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-19-262017-11-03 Talbot Street Outfall Plans - 50-pct
Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. Talbot St Talbot St	UNK UNK 2001 1905 UNK 1920 1895 UNK 1899 1920 1895 1879 1890	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Alston St to Brookline St Prospect St Prospect St Allston St to Putnam Ave Waverly St Waverly St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. San. Utility San.&Stm. San. Utility San. San. Stm.	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St Talbot St Outfall 50% Dwgs	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-09-45 sew-15-262017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07
Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St Talbot St Talbot St	UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890 2017	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St  Pearl St to Brookline St Prospect St Prospect St Allston St to Putnam Ave Waverly St Waverly St Waverly St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. San. Utility San.&Stm. San. Utility San. Utility San. Utility San. San. Utility San. San. Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St Talbot St Outfall 50% Dwgs Utility Records\Historic Utilites\D12\Talbot St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-15-26 _2017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07 HUB-047
Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St Talbot St Talbot St Talbot St Talbot St	UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890 2017	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pospect St Prospect St Prospect St Allston St to Putnam Ave Waverly St Waverly St Waverly St Waverly St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. Utility San.&Stm. San. Utility San. Stm. Utility San. Stm. Utility Utility Utility Utility Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St  Talbot St Outfall 50% Dwgs Utility Records\Historic Utilites\D12\Talbot St Utility Records\Historic Utilites\D12\Talbot St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-15-26 _2017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07 HUB-047 HUB-048
Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890 2017 1895 1895 1886	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pospect St Prospect St Prospect St Allston St to Putnam Ave Waverly St Waverly St Waverly St Temple St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. Utility San.&Stm. San. Utility Utility Utility Utility Utility Utility Utility San. San. Utility San. San. Stm. Utility Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St  Talbot St Outfall 50% Dwgs Utility Records\Historic Utilites\D12\Talbot St Utility Records\Historic Utilites\D12\Talbot St	Proposed  Survey  MIT Utility_2_2016  sew-23-33  377-530  HUA-181  HUB-065  PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS  sew-19-24  HUA-237  HUB-056  sew-09-45  sew-19-26  _2017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07  HUB-047  HUB-047  HUB-048  sew-13-12
Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890  2017 1895 1895 1886	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pospect St Prospect St Prospect St Allston St to Putnam Ave Waverly St Waverly St Waverly St Temple St Mass Ave to Bishop Allen Dr.	San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility San.&Stm. San. Utility Utility San. Stm. Utility Utility San. Stm. Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St  Talbot St Outfall 50% Dwgs Utility Records\Historic Utilites\D12\Talbot St Utility Records\Historic Utilites\D12\Talbot St Utility Records\Historic Utilites\D12\Talbot St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-15-26 _2017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07 HUB-047 HUB-048 sew-13-12 HUA-286
Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890 2017 1895 1895 1886 1920 1906	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Prospect St Prospect St Prospect St Waverly St Waverly St Waverly St Waverly St Temple St Mass Ave to Bishop Allen Dr. Brookline St to Waverly St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. San. Utility San. Utility Utility Utility Utility Utility Utility Utility Utility Utility San. Utility San. Utility San. Utility Utility San. Utility San. Utility San.	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St Utility Records\Historic Utilites\D12\Talbot St Utility Records\Historic Utilites\D12\Talbot St Sewer Volumes\Catchment_D10\Temple St Utility Records\Historic Utilites\D10\Temple St Sewer Volumes\Catchment_D10\Temple St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-15-262017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07 HUB-047 HUB-047 HUB-048 sew-13-12 HUA-286 sew-23-47
Sidney St Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890  2017 1895 1895 1896 UNK	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Prospect St Prospect St Prospect St Waverly St Waverly St Waverly St Waverly St Temple St Mass Ave to Bishop Allen Dr. Brookline St to Sidney St Brookline St to Sidney St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility Utility San.&Stm. San. Utility Utility Utility Utility Utility Utility San. Utility Utility San. Utility Utility San. Utility Utility San. Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Comcast Utility Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St  Talbot St Outfall 50% Dwgs Utility Records\Historic Utilites\D12\Talbot St Utility Records\Historic Utilites\D12\Talbot St Sewer Volumes\Catchment_D10\Temple St Utility Records\Historic Utilites\D10\Temple St Sewer Volumes\Catchment_D10\Temple St Sewer Volumes\Catchment_D10\Temple St Sewer Volumes\Catchment_D10\Temple St Utility Records\Historic Utilites\D10\Temple St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-19-262017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07 HUB-047 HUB-047 HUB-048 sew-13-12 HUA-286 sew-23-47 377-530
Sidney St Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890 2017 1895 1896 1920 UNK 1899	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Pospect St Prospect St Prospect St Waverly St Waverly St Waverly St Waverly St Temple St Mass Ave to Bishop Allen Dr. Brookline St to Sidney St Brookline St to Sidney St Brookline St to Sidney St	San.&Stm. San.&Stm. San.&Stm. San. Stm. Utility Utility San.&Stm. San. Utility Utility Utility Utility San. Utility	Cambridgeport Roadways Cambridgeport Roadways MIT Utility Drawings Sewer Volumes\Catchment_D10\Speridakis Ter Utility Records\Historic Utilites\D10\Speridakis Ter CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS Sewer Volumes\Catchment_D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Utility Records\Historic Utilites\D10\St Paul St Sewer Volumes\Catchment_D12\Talbot St Sewer Volumes\Catchment_D12\Talbot St  Talbot St Outfall 50% Dwgs Utility Records\Historic Utilites\D12\Talbot St Utility Records\Historic Utilites\D12\Talbot St Sewer Volumes\Catchment_D10\Temple St Utility Records\Historic Utilites\D10\Temple St Sewer Volumes\Catchment_D10\Temple St Sewer Volumes\Catchment_D10\Temple St Utility Records\Historic Utilites\D10\Temple St Utility Records\Historic Utilites\D10\Temple St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-19-262017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07 HUB-047 HUB-048 sew-13-12 HUA-286 sew-23-47 377-530 HUA-163
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Sidney St Sidney St Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St Talbot St Talbot St Talbot St Talbot St Talbot St Taudor St Tudor St Upton St Upton St Upton St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890  2017 1895 1896 1920 1906 UNK 1920 1895 1991  UNK 1937 1872 UNK	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Prospect St Prospect St Prospect St Allston St to Putnam Ave Waverly St Waverly St Waverly St Temple St Mass Ave to Bishop Allen Dr. Brookline St to Sidney St Pleasant St to Magazine St Pleasant St to Magazine St Pleasant St to Pleasant St	San.&Stm. San.&Stm. San.&Stm. San. Utility Utility Utility San.&Stm. Utility Utility San. Utility	Cambridgeport Roadways  Cambridgeport Roadways  MIT Utility Drawings  Sewer Volumes\Catchment_D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR  VALENTINE TUDOR EMILY SPERIDAKIS  Sewer Volumes\Catchment_D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Sewer Volumes\Catchment_D12\Talbot St  Sewer Volumes\Catchment_D12\Talbot St  Utility Records\Historic Utilites\D12\Talbot St  Utility Records\Historic Utilites\D12\Talbot St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Historic Utilites\D10\Tudor St  Sewer Volumes\Catchment_D12\Upton St  Sewer Volumes\Catchment D12\Upton St  Sewer Volumes\Catchment_D12\Upton St  Utility Records\Comcast Utility  Utility Records\Comcast Utility	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-19-262017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07 HUB-047 HUB-048 sew-13-12 HUA-286 sew-23-47 377-530 HUA-163 HUB-063 WaterAtlas_1991_D7 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS 6918 sew-06-07 355-530 CambridgeGasCo_1965Atlas_104
Sidney St Sidney St Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St Talbot St Talbot St Talbot St Talbot St Talbot St Tudor St Upton St Upton St Upton St Upton St Upton St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890  2017 1895 1886 1920 1906 UNK 1920 1895 1920 UNK 1920 UNK 1920 UNK 1920 UNK 1937 UNK 1937 1872 UNK 1965	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Prospect St Prospect St Prospect St Allston St to Putnam Ave Waverly St Waverly St Waverly St Waverly St Brookline St to Sidney St Pleasant St to Magazine St Pleasant St to Magazine St Pleasant St to Magazine St	San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility San.&Stm. San. Utility Utility San. San. Utility Utility San. Stm. Utility Utility Utility San. Utility San. Utility San. Utility San. Utility San. Utility	Cambridgeport Roadways  Cambridgeport Roadways  MIT Utility Drawings  Sewer Volumes\Catchment_D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR  VALENTINE TUDOR EMILY SPERIDAKIS  Sewer Volumes\Catchment_D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Sewer Volumes\Catchment_D12\Talbot St  Sewer Volumes\Catchment_D12\Talbot St  Talbot St Outfall 50% Dwgs  Utility Records\Historic Utilites\D12\Talbot St  Utility Records\Historic Utilites\D12\Talbot St  Sewer Volumes\Catchment_D10\Temple St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D10\Tudor St  Utility Records\Gas Utility  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Upton St	Proposed  Survey  MIT Utility 2_2016  sew-23-33  377-530  HUA-181  HUB-065  PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS  sew-19-24  HUA-237  HUB-056  sew-09-45  sew-19-25  sew-15-26  _2017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07  HUB-047  HUB-048  sew-13-12  HUA-286  sew-13-12  HUA-286  sew-23-47  377-530  HUA-163  HUB-163  HUB-163  HUB-163  WaterAtlas_1991_D7  PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS 6918  sew-06-07  355-530  CambridgeGasCo_1965Atlas_104  HUA-153
Sidney St Sidney St Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St Talbot St Talbot St Talbot St Talbot St Talbot St Tudor St Upton St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890  2017 1895 1896 UNK 1920 1906 UNK 1920 1895 1910 UNK 1920 1895 1991  UNK 1937 1872 UNK 1965 1920 1991	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Prospect St Prospect St Aliston St to Putnam Ave Waverly St Waverly St Waverly St Waverly St Temple St Brookline St to Sidney St Pleasant St to Magazine St	San.&Stm. San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility San.&Stm. San. Utility Utility San. Stm. Utility Utility San. Stm. Utility Utility San. Utility San. Utility San. Utility San. Utility San. Utility	Cambridgeport Roadways  Cambridgeport Roadways  MIT Utility Drawings  Sewer Volumes\Catchment_DIO\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR  VALENTINE TUDOR EMILY SPERIDAKIS  Sewer Volumes\Catchment_D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Sewer Volumes\Catchment_D12\Talbot St  Sewer Volumes\Catchment_D12\Talbot St  Utility Records\Historic Utilites\D12\Talbot St  Utility Records\Historic Utilites\D12\Talbot St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Historic Utilites\D10\Tudor St  Utility Records\Catchment_D12\Upton St  Sewer Volumes\Catchment_D12\Upton St  Utility Records\Catchment_D12\Upton St  Utility Records\Historic Utilites\D12\Upton St  Utility Records\Historic Utilites\D12\Upton St  Utility Records\Historic Utilites\D12\Upton St  Utility Records\Historic Utilites\D12\Upton St	Proposed Survey MIT Utility_2_2016 sew-23-33 377-530 HUA-181 HUB-065 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS sew-19-24 HUA-237 HUB-056 sew-09-45 sew-19-262017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07 HUB-047 HUB-048 sew-13-12 HUB-048 sew-13-12 HUA-286 sew-23-47 377-530 HUA-163 HUB-063 WaterAtlas_1991_D7 PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS 6918 sew-06-07 355-530 CambridgeGasCo_1965Atlas_104 HUA-153 WaterAtlas_1991_D6
Sidney St Sidney St Sidney St Sidney St Sidney St Sidney St Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter Speridakis Ter St. Paul St. St. Paul St. St. Paul St. Talbot St Talbot St Talbot St Talbot St Talbot St Talbot St Tudor St Upton St Upton St Upton St Upton St Upton St	UNK UNK 2001 1905 UNK 1920 1895  UNK 1899 1920 1895 1879 1890  2017 1895 1886 1920 1906 UNK 1920 1895 1920 UNK 1920 UNK 1920 UNK 1920 UNK 1937 UNK 1937 1872 UNK 1965	Pacific St to Waverly St Pacific St to Waverly St Pacific St to Emily St Pearl St Prospect St Prospect St Prospect St Allston St to Putnam Ave Waverly St Waverly St Waverly St Waverly St Brookline St to Sidney St Pleasant St to Magazine St Pleasant St to Magazine St Pleasant St to Magazine St	San.&Stm. San.&Stm. San.&Stm. Utility Utility Utility San.&Stm. San. Utility Utility San. San. Utility Utility San. Stm. Utility Utility Utility San. Utility San. Utility San. Utility San. Utility San. Utility	Cambridgeport Roadways  Cambridgeport Roadways  MIT Utility Drawings  Sewer Volumes\Catchment_D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  Utility Records\Historic Utilites\D10\Speridakis Ter  CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR  VALENTINE TUDOR EMILY SPERIDAKIS  Sewer Volumes\Catchment_D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Utility Records\Historic Utilites\D10\St Paul St  Sewer Volumes\Catchment_D12\Talbot St  Sewer Volumes\Catchment_D12\Talbot St  Talbot St Outfall 50% Dwgs  Utility Records\Historic Utilites\D12\Talbot St  Utility Records\Historic Utilites\D12\Talbot St  Sewer Volumes\Catchment_D10\Temple St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Historic Utilites\D10\Temple St  Utility Records\Comcast Utility  Utility Records\Historic Utilites\D10\Tudor St  Utility Records\Gas Utility  Utility Records\Comcast Utility  Utility Records\Gas Utility  Utility Records\Historic Utilites\D12\Upton St	Proposed  Survey  MIT Utility 2_2016  sew-23-33  377-530  HUA-181  HUB-065  PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS  sew-19-24  HUA-237  HUB-056  sew-09-45  sew-19-25  sew-15-26  _2017-11-03 Talbot Street Outfall Plans - 50-pct Design Development - FINAL 2017-11-07  HUB-047  HUB-048  sew-13-12  HUA-286  sew-13-12  HUA-286  sew-23-47  377-530  HUA-163  HUB-163  HUB-163  HUB-163  WaterAtlas_1991_D7  PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS 6918  sew-06-07  355-530  CambridgeGasCo_1965Atlas_104  HUA-153

Vail Ct	1917	Bishop Allen Dr.	San.&Stm.	Other Historical Plans\Catchment D10\Vail Ct	6154
Valentine St	1874	Pearl St to Brookline St	San.	Sewer Volumes\Catchment D10\Valentine St	sew-07-50
Valentine St	1935	Pearl St to Brookline St	San.&Stm.	Other Historical Plans\Catchment D10\Valentine St	6919 (1)
Valentine St	1905	Pearl St to Brookline St	San.	Sewer Volumes\Catchment D10\Valentine St	sew-23-33
	UNK		Utility		377-530
Valentine St		Pearl St to Brookline St		Utility Records Comcast Utility	
Valentine St	1965	Brookline St to Pearl St	Utility	Utility Records\Gas Utility	Brookline St Gas
Valentine St	UNK	Pearl St to Brookline St	Utility	Utility Records\Historic Utilites\D10\Valentine St	HUA-116
Valentine St	UNK	Pearl St to Brookline St	Utility	Utility Records\Historic Utilites\D10\Valentine St	HUA-181
Valentine St	UNK	Pearl St to Brookline St	San.&Stm.	CMH7\CMH7cad.zip\Existing Survey - CAD\DECATUR VALENTINE TUDOR EMILY SPERIDAKIS	PRELIMINARY DECATUR VALENTINE TUDOR EMILY SPERIDAKIS
Vassar St	2003	Audry St to Memorial Dr.	San.&Stm.	Amesbury St_Audrey St_Pearl St_Improvements (Vassar)	asbuilts
Vassar St	1912	Endicott St to Danforth St.	San.&Stm.	Sewer Volumes\Catchment_D10\Valentine St	sew-25-23
Vassar St	1915	Fowler St to Endicott St	San.&Stm.	Sewer Volumes\Catchment_D10\Valentine St	sew-27-03
Vassar St	2001	Pacific St	San.&Stm.	Cambridgeport Roadways	ALLOOF\$
Vassar St	2001	Pacific St	San.&Stm.	MIT Utility Drawings	MIT Utility_1_2016
Vassar St	1997	Pacific St	San.&Stm.	MIT Utility Drawings	MIT_Utility_Plans_1997
Watson St	1881	Pearl St to Brookline St	San.	Sewer Volumes\Catchment_D10\Watson St	sew-10-22
Watson St	UNK	Pearl St to Brookline St	Utility	Utility Records\Comcast Utility	377-530
Watson St	1965	Brookline St to Pearl St	Utility	Utility Records\Gas Utility	Brookline St Gas
Watson St	1991	Pearl St to Brookline St	Utility	Utility Records\Water Utility	WaterAtlas 1991 D6
Waverly St	1920	Erie St to Pacific St	San.&Stm.	Sewer Volumes\Catchment D10\Waverly St	sew-27-02
Waverly St	2009	Merriam and Pacific St	Utility	Other Historical Plans\Catchment D10\Waverly St	9594
Waverly St	1935	Chestnut St to Erie St	San.	Other Historical Plans\Catchment D12\Waverly St	6923
Waverly St	1961	Putnam Ave to Allston St	San.	Other Historical Plans\Catchment D12\Waverly St	7513
Waverly St	2002	Brookline St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003_46-Drain
Waverly St	2000	Erie St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003 60-Drian
Waverly St	2000	Henry St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003_62-Drain
Waverly St	2000	Henry St to Chestnut St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003 63-Drain
Waverly St	2000	Putnam Ave	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003 65-Drain
Waverly St	2000	Reardon St to Albany St	Stm.	Cambridgeport Roadway Improvements	CambridgeportRoadways-2003_05 Brain
Waverly St	1879	Allston St to Putnam Ave	San.	Sewer Volumes\Catchment D12\Waverly St	sew-09-45
Waverly St	1888	Henry St to Putnam Ave	San.	Sewer Volumes\Catchment D12\Waverly St	sew-13-42
Waverly St	1891	Talbot St to Erie St	San.	Sewer Volumes\Catchment D12\Waverly St	sew-16-05
Waverly St	1920	Erie St to Pacific St	San.&Stm.	Sewer Volumes\Catchment_D12\Waverly St	sew-10-03
Waverly St	1920	Erie St to Chestnut St	Utility	Utility Records\Historic Utilites\D12\Waverly St	HUA-159
Waverly St	1895	Chestnut St to Allston St	Utility	Utility Records\Historic Utilites\D12\Waverly St	HUB-048
Waverly St	UNK	Erie St to Sidney St	San.&Stm.	Cambridgeport Roadways	Proposed
William St	1935	River St to Pearl St	San.	Other Historical Plans\Catchment D12\William St	6933
William St	1935		San.	Other Historical Plans\Catchment D12\William St	7009
William St	1877	River St to Magazine St	San.	Sewer Volumes\Catchment D12\Waverly St	sew-09-32
		River St to Magazine St			
William St	1883	Magazine St to Pearl St	San.	Sewer Volumes\Catchment_D12\Waverly St	sew-11-02
William St	1973	Pearl St to Magazine St	San.&Stm.	Sketches	MWRA Crossing (Sketch)
William St	1965	Magazine St to River St	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_105
William St	1965	Pearl St to Magazine St	Utility	Utility Records\Gas Utility	CambridgeGasCo_1965Atlas_106
William St	1920	River St to Pearl St	Utility	Utility Records\Historic Utilites\D12\William St	HUA-152
William St	1895	Magazine St to Pearl St	Utility	Utility Records\Historic Utilites\D12\William St	HUB-062
William St	1991	River St to Magazine St	Utility	Utility Records\Water Utility	WaterAtlas_1991_D7
William St	2005	River St to Magazine St	San.&Stm.	CMH3	AsBuilt_10.25.05
William St	1973	Pearl St to Magazine St	San.&Stm.	Maguire Drawings\William St	4





### APPENDIX B VALENTINE STREET OBSTRUCTION SKETCH







# APPENDIX C CCTV DATABASE (EXISTING AND NEW)

#### **Cambridgeport Stormwater Improvements (IDDE)**

CCTV Database (Includes historical CCTV from 2006 - 2017)

#### **General Notes:**

- 1. CCTV Related to PL6 project area has not been included in database
- 2. Database includes Historical CCTV from 2006 to 2017
- 3. D12 prioritized; Remaining drain reaches within D12 added to table to quantify what is missing
- 4. NWMCC Round 2 work will include obtaining CCTV for all remaining reaches within D12 that we do not have historical CCTV

Survey Abandoned

Part	Street	Area	Catchment Area	Туре	Upstream Manhole	Downstream Manhole	GIS FacilityID	CCTV Date	Pipe Size (in)	Pipe Material	Report (Y/N)	Video (Y/N)	Stagnant Flow Visible (Y/N)	CCTV Pipe Length (ft)	Lateral Connections into SD (Y/N/NA)	No. of Lateral Connections into SD (#)
## 1500 PROFESS   1000 PROFESS   100			D10	Storm	D10DMH0205		D10DMH0205_D10C0M0520	7/6/2016	36	(Lined?)	N	Y	Υ	34	UNK	UNK
Fig.   Some   Fig.			D10	Storm	D10DMH0210	D10DMH0205	D10DMH0210_D10DMH0205	7/6/2016	36		N	Y	Y	124	Y	2
122   South   123   South	Albany Street	Erie St to Pacific St	D10	Storm	D10DMH0220	D10DMH0210	D10DMH0220_D10DMH0210	7/6/2016	36	RCP	N	Y	N	394	Y	8
Magner of the Part   11   12   12   12   13   14   15   15   15   15   15   15   15			D12	Storm	D10DMH0230	D10DMH0225	D10DMH0230_D10DMH0225	7/6/2016	36	RCP	N	Υ	Υ	95	N	
Subsect   Subs			D12	Storm	D10DMH0225	D10DMH0220	D10DMH0225_D10DMH0220	7/6/2016	36	RCP	N	Y	N	288	Y	5
Perf 17st Bookles S		Sidney St to Grove Ave	D12	Storm	D12DMH1205		D12DMH1205_FITT3222	1/21/2009	24	RCP	N	Y	N	169	Y	7
Adjust Per 1 Discontinuity Common Com				Storm			D12DMH8910_D12DMH8905		12		N	Y	N	5	N	
Majerier Associates   Did   Storm   Did	Allston St	Pearl St to Brookline St														
Paul 51 to Foodlise 5  072   Stem   0120MM9905   0120Mm		Managina Chha Dagal Ch					wind .									
Pearl St to Braskine St		Magazine St to Pearl St					_									
Sideway St.   D12   Storm   D1200M12315		Pearl St to Brookline St				D12DMH9005	_									
D10   Storm   D100MeH0320   D100MeH0320   D100MeH0315			D12	Storm	D12DMH1215		D12DMH1215_D12DMH1210	3/8/2018	15	RCP	Υ	Υ	N	28	N	
D10   Storm   D100MH1500   D1		Sidney St	D12	Storm	D12DMH1210	D12DMH1205	D12DMH1210_D12DMH1205	3/8/2018	15	RCP	Υ	Υ	N	47	N	
Fowler St to Endicott St			D10	Storm	D10DMH0320	D10DMH0115	FITT3716_D10DMH0115	4/2/2018	12	PVC	Y	Y	Υ	68	Y	4
Auburn Park   Brookline Pt to Brookline St   D10   Storm   D10DMH2515   D10DMH2514   D10DMH2515   D10DMH2516   D10DMH25175   D12DMH25176   D12DMH251776   D12DMH251776   D12DMH251776   D12DMH251776   D12DMH251776   D12DMH251776   D12DMH2517776   D12DMH2517776   D12DMH2517776   D12DMH25177776   D12DMH25177776   D12DMH251777777777777777777777777777777777777			D10	Storm	D10DMH1660	D10DMH1650	D10DMH1660_D10DMH1650	4/2/2018	15	RCP	Υ	Y	Υ	128	Y	4
AUDUM PARK    BOOKINE PLOS BOOK		Fowler St to Endicott St	D10	Storm	D10DMH1650						Y	Y	Υ		Y	6
Salem St to Brookline St	Auburn Park	Brookline Pl to Brookline St				D10DMH2514	_	2/27/2017	18	RCP	Υ	Y	Υ	101	N	
Salem St to Brookline St   D10   Sewer   S23SMH3710   S23SMH3705   S23SMH3710   S23SMH3705   2/24/2017   8   VCP   Y   N   UNK   195   NA						D10DMH380E	-	2/24/2017	12	RCD	٧		N	3/13	N	
Dig   Sewer   S23SMH3715   S2																NA
Pearl St to Salem St   D10   Sewer   S23SMH3705   S23SMH3125   S23SMH3705   S23SMH3705   S23SMH3705   S23SMH3705   S23SMH3715   S23SM		Salem St to Brookline St					_									NA NA
Auburn Street  Magazine St to River St  D10 Storm D12DMH7575 (Suspected D12DMH7573) D12DMH7570 D12D																NA
Magazine St to River St		Pearl St to Salem St	D10	Sewer	S23SMH3720	S23SMH3715		2/24/2017	8	VCP	Υ	N	UNK	98	NA	NA
D10   Storm   D12DMH8310   D12DMH7575   D12DMH8310_D12DMH7573   D11/19/2014   12   PVC   N   Y   N   248   N	Auburn Street	Magazine St to River St	D10	Storm			D12DMH7573_D12DMH7570	11/19/2014	12	PVC	N	Y	N	28	N	
D10   Storm   D09DMH7205   D12DMH6650   D09DMH7205_D12DMH6650   9/19/2012   12   RCP   N   Y   N   16   N						(Suspected D12DMH7573)						Y				
Auburn St to Pilgrim St  D10 Storm D10DMH2205 D10DMH2415 D10DMH2415 D27/2017 24 RCP Y Y N 150 N  D10 Storm D10DMH2207 D10DMH2205 D10DMH2205 D27/2017 15 RCP Y Y N 72 N  Pilgrim St to Pacific St D10 Storm D10DMH2415 D10DMH2415 D10DMH2305 D10DMH2415_D10DMH2305 2/27/2017 24 RCP Y Y N 239 Y		Pearl St to Magazine St					_									
Audurn's to Pilgrim St  D10 Storm D10DMH2207 D10DMH2205 D10DMH2205 2/27/2017 15 RCP Y Y N 72 N  Pilgrim St to Pacific St D10 Storm D10DMH2415 D10DMH2305 D10DMH2415_D10DMH2305 2/27/2017 24 RCP Y Y N 239 Y							_									
Pilgrim St to Pacific St         D10         Storm         D10DMH2415         D10DMH2305         D10DMH2415_D10DMH2305         2/27/2017         24         RCP         Y         Y         N         239         Y		Auburn St to Pilgrim St					_									
		Pilgrim St to Pacific St					_									1
Brookline Place   Frankline St to Auburn St   D10   Storm   D10DMH2520   D10DMH2515   D10DMH2515   2/27/2017   18   RCP   Y   Y   N   187   N	Brookline Place					D10DMH2515	_								·	-

Street	Area	Catchment Area	Туре	Upstream Manhole	Downstream Manhole	GIS FacilityID	CCTV Date	Pipe Size (in)	Pipe Material	Report (Y/N)	Video (Y/N)	Stagnant Flow Visible (Y/N)	CCTV Pipe Length (ft)	Lateral Connections into SD (Y/N/NA)	No. of Lateral Connections into SD (#)
		D10	Sewer	S23SMH0810	S23SMH0815	S23SMH0810_S23SMH0815	2/27/2017	8	PVC	Υ	N	UNK		NA	NA
İ	Frankline St to Pilgrim St	D10	Sewer	S23SMH0825	S23SMH0820	S23SMH0825_S23SMH0820	2/27/2017	12	PVC	Υ	N	UNK	246	NA	NA
İ		D10	Sewer	S23SMH0820	S23SMH0805	S23SMH0825_S23SMH0805	2/27/2017	12	PVC	Υ	N	UNK	110	NA	NA
		D10	Storm	D10DMH2015	D10DMH2013	D10DMH2015_D10DMH2013	2/8/2017 &	24	RCP	Y	Υ	Y	126	N	
	Allston St to Watson St	D10	Storm	D10DMH2013 (Labeled D10DMH2015	D10DMH2010	D10DMH2013_D10DMH2010	2/4/2008 2/8/2017 &	24	RCP	Y	Υ	N	64	N	
		D10	Storm	D10DMH2020	D10DMH2015	D10DMH2020_D10DMH2015	2/4/2008 2/8/2017 & 2/4/2008	24	RCP	Y	Y	Y	48	N	
	Watson St to Auburn St	D10	Storm	D10DMH2625	D10DMH2620	D10DMH2625_D10DMH2620	3/19/2018	54x48	Brick	Y	Υ	Y	210	Υ	7
•	Lauran Chita Danifin Ch	D10	Storm	D10DMH2010	D10DMH2005	D10DMH2010 D10DMH2005	2/4/2008	24	RCP	N	Υ	N	41	Υ	1
1	Lopez St to Pacific St	D10	Sewer	S23SMH3005	S23SMH0035	S23SMH3005 S23SMH0035	3/2/2017	12	VCP	Υ	N	UNK	64	NA	NA
	Pacific St to Pilgrim St	D10	Storm	D10DMH2620	D10DMH0550	D10DMH2620_D10DMH0550	3/20/2018	64x48	Brick	Y	Υ	Y	286 (CCTV 234)	Y	7
İ	Pilgrim St to Green St	D10	Storm	FIT6578	D10DMH1340	FIT6578 D10DMH1340		48		N	N		730		
1	Valentine St to Decatur St	D10	Storm	D10DMH2025	D10DMH2020	D10DMH2025_D10DMH2020	2/4/2008	24	RCP	N	Υ	N	180	Υ	1
1	valentine St to Decatur St	D10	Storm	D10DMH2030	D10DMH2025	D10DMH2030_D10DMH2025	2/4/2008	18	RCP	N	Y	N	114	Υ	1
1	Erie St to Valentine St	D10	Storm	D10DMH2035	D10DMH2030	D10DMH2035_D10DMH2030	2/4/2008	12	RCP	N	Υ	N	162	Υ	3
İ		D10	Storm	D10DMH2040	D10DMH2035	D10DMH2040_D10DMH2035	2/4/2008	12	RCP	N	Υ	N	190	Υ	2
Brookline Street	Auburn St to Franklin	D10	Storm	D10DMH2630	D10DMH2625	D10DMH2630_D10DMH2625	3/19/2018	54x48	Brick	Y	Y	Y	231	Y	12
	Green St to Franklin St	D10	Storm	D10DMH2635	D10DMH2630	D10DMH2635_D10DMH2630	3/19/2018	54x48	Brick	Y	Y	Y	247	Y	5
	Green St to Massachusetts Ave	D10	Storm	D10DMH2650	D10DMH2635	D10DMH2650_D10DMH2635	5/15/2008	64x48	Brick	N	Y	N	226	Υ	4
	Allston St to Erie St	D12	Storm	D12DMH6028	D12DMH6026	D12DMH6028_D12DMH6026	1/31/2008	12	VCP	N	Y	N	420	Y	22
	Hamilton St to Erie St	D12	Storm	D12DMH6026	D12DMH6030 (labeled as D12DMH6031 in report, typo)	D12DMH6026_FIT1068	3/8/2018	12	PVC	Y	Υ	Υ	32	N	
l	Decatur St to Lopez St	D10	Sewer	S23SMH3010	S23SMH3005	S23SMH3010 S23SMH3005	3/2/2017	10	VCP	Y	N	UNK	230	NA	NA
	Decatur St	D10	Combined	S23COM3307 (Suspect D10DMH2200)	D10DMH2020	D10DMH2200_FITT4342	2/26/2008	18	RCP	N	Υ	N	213	Υ	3
Chalk Street	Pleasant St to Magazine St	D12	Storm	D12DMH7810	D12DMH7535	D12DMH7810_D12DMH7535	11/6/2014	15	VCP	N	Υ	N	143	Y	1
		D12	Storm	D12DMH7815	D12DMH7810	D12DMH7815_FIT6963	11/6/2014	15	VCP	N	Υ	N	312	N	
Chestnut St	Brookline St to Sidney St	D12	Storm	D12DMH0932	D12DMH0930	D12DMH0932_D12DMH0930	3/8/2018	15	RCP	Υ	Υ	Υ	32	N	
Clinston St	Harvard St to Mass Ave	D10	Storm	D10DMH3610	D10DMH3605	D10DMH3610_FITT3257	3/26/2018	10	DI	Y	Y	Υ	168		7
•		D10	Storm	D10DMH3605	D10DMH3600	D10DMH3605 D10DMH3600	3/26/2018	12	PVC	Υ	Υ	N	27.1	N	NA
		D12	Storm	D12DMH6715	D12DMH6710	D12DMH6715_D12DMH6710	9/24/2012	12	RCP	N N	Y	N	37	Y	2
	Magazine St to Pearl St	D12	Storm	D12DMH6710	D12DMH6705	D12DMH6710_D12DMH6705	9/27/2012	12	RCP	N	Y	N	254	Y	4
Corporal McTernan	(Filmed from Downstream MH)				1		0/24/2012	42	200	<b>.</b>	· ·	1		+	
Corporal McTernan	(Filmed from Downstream Min)	D12	Storm	D12DMH6705	D12DMH6615	D12DMH6705 D12DMH6615	9/24/2012	12	RCP	I N	Υ	N	24	N	
Corporal McTernan	(Filmed from Downstream Win)	D12	Storm Storm	D12DMH6705 D12DMH8115	D12DMH6615 D12DMH8110	D12DMH6705_D12DMH6615 D12DMH8115_FIT6992	9/24/2012 11/24/2014	12 15	RCP VCP	N N	Y	N N	24	N N	
Corporal McTernan	River Street to Magazine Street					=									
Corporal McTernan		D12	Storm	D12DMH8115	D12DMH8110	D12DMH8115_FIT6992	11/24/2014	15	VCP	N	Y	N	236 220 15	N	
Corporal McTernan  Cottage Street		D12 D12	Storm Storm	D12DMH8115 D12DMH8110	D12DMH8110 D12DMH7553	D12DMH8115_FIT6992 FIT6653_D12DMH7553	11/24/2014 11/24/2014	15 18	VCP VCP	N N	Y	N N	236 220	N N	

Part	No. of Lateral Connections into SD (#)	Lateral Connections into SD (Y/N/NA)	CCTV Pipe Length (ft)	ow	Stagnant Flow Visible (Y/N)	Video (Y/N)	Report (Y/N)	Pipe Material	Pipe Size (in)	CCTV Date	GIS FacilityID	Downstream Manhole	Upstream Manhole	Туре	Catchment Area	Area	Street
Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	1		83		N	Υ	N	RCP	12	9/19/2012	D12DMH7012_D12DMH7005	D12DMH7005	D12DMH7012	Storm	D12	Magazine Street to Pearl Street	
CALIFORNIA DE LA CONTRETA DE SEU DES DES DES DES DES DES DES DES DES DES	-	N	16		N	Υ	N	RCP	12	9/19/2012	D12DMH7005_D12DMH6636	D12DMH6636	D12DMH7005	Storm	D12		
March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   March 10 87 CM   Marc	6	Y	209		Y	Y	N	RCP	15	UNK	D10DMH4608_D01DMH8865	D01DMH8865	D10DMH4608	Storm	D10	Columbia Ter to Bishop Allen Drive	
County   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision   Decision	9	Y	213		N	Y	N	VCP	15	12/17/2015	D10DMH4612_D10DMH4608	D10DMH4608		Storm	D10	Columbia Ter to Bishop Allen Drive	Columbia Street
Per Street to Receive Street   Per Street to Receive Street   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock   Stock	3	Y	186		Υ	Y	N	VCP	15	UNK	D10DMH4710_D01DMH8865	D01DMH8865	D10DMH4710	Storm	D10	Main St to Bishop Allen Drive	
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect	5	Y	242		Υ	Y	Υ	VCP	15	2/28/2017	D10DMH2210_D10DMH2200	D10DMH2200	D10DMH2210	Storm	D10		
Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed   Designed	3	Y	212		Υ	Y	Y	PVC	18	2/8/2017	D10DMH2200_FITT4342	D10DMH2020	D10DMH2200	Storm	D10	Pearl Street to Brookline Street	Decator Street
Part Street	NA					N	Υ				S23SMH3310_S23SMH3307			Sewer			
Pearl Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street to Residence Street Street Residence Street Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Residence Street Resi	NA	NA	221		UNK	N	Υ	VCP	8	2/28/2017		FIT7374	S23SMH3307	Sewer	D10		
Magazine-Street to Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street   Prent Street	7	Y	292		N	Y	N	Brick	36	2/1/2016	D10DMH4605_D10DMH3115	D10DMH3115	D10DMH4605	Storm	D10	Bishop Allen Dr to Mass Ave	Douglass Street
Price Street																	
Peer   Server   Peer   Server   Diza   Source   Dizabeles/000   ACCESSED   Dizabeles/000   FITTIFFS   BEFANDE   BEFANDE   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000   PEER   DIZABELES/000	2	<del></del>				++										Magazine Street to Pearl Street	
Pearl Street is Booldline Street   D12   Storm   D120MH6685   D120MH6685   FIT231_FIR849   3/27/2817   40   RCP   N   Y   Y   222   Y											_						
D12   Storm   D12DMH6033   D12DMH6030   D12DMH6030   3/5/2018   86   RCP   Y   Y   Y   41   N	UNK	Y	232		Y	Y	N	RCP	40	3/27/2017	FITT2211_FIT8459	D12DMH6033	D12DMH6035	Storm	D12	Pearl Street to Brookline Street	
Eric Street	3	Υ	245		N	Υ	Υ	RCP	40x30	2/26/2018	FITT3779_FITT2212	D12DMH6035	ACCESS352	Storm	D12		
Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Discrimental   Disc		N	41		Y	Y	Y	RCP	36	3/5/2018	D12DMH6033 D12DMH6030	D12DMH6030	D12DMH6033	Storm	D12		
D12   Storm   D120MH01030   D120MH01191   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109   D120MH0109	12	Y	420		Υ	Y	Y	DIP/BR	40x42		D12COM6030_FIT6725	D12DMH0300	D12DMH6030	Storm	D12	Brookline St to Sidney St	Erie Street
D12							Υ				in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se						
D12   Storm   (labelet as Jackhelo191 in report, typo)   D12   Storm   D12mhH0205   D12uGS0003   D12mhH0205   FIT7480   3/5/2018   54   RCP   Y   Y   Y   32   N		N	111		Y	Y	Y	RCP	54	3/5/2018	D12DMH0200_D12DMH0190	D12DMH0190		Storm	D12		
D12 Storm D12UGS0003 ACCESS231 FIT7482_FIT7479 3/5/2018 54 RCP/BR Y Y Y 381 Y  D12 Storm D10DMH0305 D10DMH0240 D10DMH0305_D10DMH0240 3/9/2018 15 RCP Y Y Y Y 17 N 269 Y D12U Storm D12DMH7715 D12DMH7710 D12DMH7715_FIT7163 11/7/2014 15 VCP N Y N 269 Y D12U Storm D12DMH7710 D12DMH7725 FIT3447_D12DMH7525 11/7/2014 18 VCP N Y N 241 Y D12U Storm D10DMH665 D10DMH660 D10DMH660 4/3/2018 15 RCP Y Y Y Y 42 N D10UMH7515 D10DMH550 D10DMH550 D10DMH660 4/3/2018 15 RCP Y Y Y Y 42 N D10UMH7515 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D10DMH550 D1DMH550 D1DMH550 D10DMH550 D1DMH550 D	1	Y	264		Υ	Y	Υ	RCP	54	3/5/2018	D12DMH0190_FIT7416	ACCESS231	(labeled as D12DMH0191 in report, typo)	Storm	D12		
D12   Storm   D10DMH0305   D10DMH0240   D10DMH0240   3/9/2018   15   RCP   Y   Y   Y   Y   T7   N		N	32		Y	Y	Υ	RCP	54	3/5/2018	D12DMH0205_FIT7480	D12UGS0003	D12DMH0205	Storm	D12		
Pleasant St to Magazine St   D12   Storm   D12DMH7715   D12DMH7710   D12DMH7715   FITT163   11/7/2014   15   VCP   N   Y   N   269   Y	18	Y	381		Υ	Υ	Y	RCP/BR	54	3/5/2018	FIT7482_FIT7479	ACCESS231	D12UGS0003	Storm	D12		
Pleasant St to Magazine St   D12   Storm   D12DMH7715   D12DMH7710   D12DMH7715   FIT7163   11/7/2014   15   VCP   N   Y   N   269   Y		₩ N	17	$\dashv$	Υ	Y	Υ	RCP	15	3/9/2018	D10DMH0305 D10DMH0240	D10DMH0240	D10DMH0305	Storm	D12		
Fowler St   D12   Storm   D12DMH7/10   D12DMH7/S2S   H113447_D12DMH7/S2S   11/7/2014   18   VCP   N   Y   N   241   Y	1																
Magazine Street to Pearl Street   D10   Storm   D10DMH550   D10COM2915 (Suspected \$23COM3925)   D10DMH2910   D10COM2915_FITT3679   2/24/2016   15   RCP   N   Y   Y   322   Y	3	Y	241		N	Y	N	VCP	18	11/7/2014	FITT3447_D12DMH7525	D12DMH7525	D12DMH7710	Storm	D12	Pleasant St to Magazine St	Fairmont Street
Magazine Street to Pearl Street   D10		N	42		Υ	Υ	Υ	RCP	15	4/3/2018	D10DMH1665_D10DMH1660		D10DMH1665	Storm	D10		Fowler St
D10   Storm   D10COM2915   D10DMH2910   D10COM2915_FITT3679   2/24/2016   15   RCP   N   Y   Y   322   Y		N	78		Y	Υ	N	RCP	15	2/24/2016	D10DMH5550_D10COM2915		D10DMH5550	Storm	D10		
Pearl Street to Brookline Street D10 Storm D10DMH2910 (Suspect D10DMH2905) D10COM2910_FI1107S 2/24/2016 15 KCP N Y N 111 N	UNK	Y	322		Y	Y	N	RCP	15	2/24/2016	D10COM2915_FITT3679	D10DMH2910		Storm	D10	Magazine Street to Pearl Street	
(Suspect D10DMH2905)		N	111		N	Y	N	RCP	15	2/24/2016	D10COM2910_FITT075		D10DMH2910	Storm	D10	Pearl Street to Brookline Street	
Brookline St to Brookline PI D10 Storm D10DMH1525 D10DMH1520 D10DMH1525_D10DMH1520 2/26/2016 18 RCP N Y N 165 N		N		+	N	Y	N	RCP	18	2/26/2016		(Suspect D10DMH2905) D10DMH1520		Storm	D10		

Street	Area	Catchment Area	Туре	Upstream Manhole	Downstream Manhole	GIS FacilityID	CCTV Date	Pipe Size (in)	Pipe Material	Report (Y/N)	Video (Y/N)	Stagnant Flow Visible (Y/N)	CCTV Pipe Length (ft)	Lateral Connections into SD (Y/N/NA)	No. of Lateral Connections into SD (#)
Franklin Street	Brooking St to Brooking 11	D10	Storm	D10DMH1520	D10DMH1515	D10DMH1520_D10DMH1515	2/26/2016	18	RCP	N	Y	Y	41	N	
		D10	Storm	D10DMH1510	D10DMH1505	D10DMH1510_D10DMH1505	2/26/2016	18	RCP	N	Y	Y	97	N	
	Brookline PI to Sidney PI	D10	Storm	D10DMH2905	D10DMH2630	FITT0076_D10COM2630	3/15/2018	18	PVC/RCP	Υ	Υ	Y	355	Y	3
		D10	Storm	D10DMH1515	D10DMH1510	D10DMH1515_D10DMH1510	3/16/2018	18	RCP	Y	Y	Y	98	N	
		D10	Storm	D10DMH1420	D10DMH1415	FIT1325_D10DMH1415	2/26/2016	15	RCP	N	Υ	Y	81.3	N	
		D10	Storm	D10DMH1415	D10DMH1410	D10DMH1415_D10DMH1410	2/26/2015	15	RCP	N	Y	Y	50	N	
	Magazine Street to Pearl Street	D10	Storm	D10DMH3370	D10DMH3365	D10DMH3370_D10DMH3365	3/9/2007	12	RCP	N	Y	Y	200	Y	UNK
		D10	Storm	D10DMH3360	D10DMH3355	D10DMH3360_D10DMH3355	3/9/2007	12	RCP	N	Y	N	197	Y	2
	Western Ave to Pleasant St	D10	Sewer	S23SMH2125	S23SMH2130	S23SMH2125_S23SMH2130	3/8/2017	8	PE	Y	N	UNK	298	NA	NA
Croop Street	Pleasant St to Sellers St	D10	Combined	D17CMH3920	D17CMH3915 (Suspect D17CMH3918)	D17CMH3920_D17CMH3918	3/8/2017	12	PVC	Y	N	UNK	151	NA NA	NA NA
Green Street		D10	Combined Sewer	D17CMH3918 S33SMH2720	D17CMH3915 S33SMH2715	D17CMH3918_D17CMH3915 S33SMH2720 S33SMH2715	3/8/2017 3/10/2017	12 8	PVC PE	Y	N N	UNK	228 262	NA NA	NA NA
		D10	Combined	D17CMH3915	D17CMH3905	D17CMH3915_D17CMH3905	3/8/2017	15	PVC	Y	N	UNK	361	NA NA	NA
	Sellers St to Hancock St	D10	Combined	D17CMH3905	D17CMH3410	D17CMH3905_D17CMH3410	3/8/2017	15	СР	Υ	N	UNK	361	NA	NA
	Schers St to Hamcock St	D10	Sewer	S33SMH2715	S33SMH2710	S33SMH2715_S33SMH2710	3/10/2017	10	PE	Y	N	UNK	324	NA	NA
		D10	Sewer	S33SMH2710	S33SMH2415	\$33\$MH2710_\$33\$MH2415	3/10/2017	10	PE	Y	N	UNK	322	NA	NA
	Pearl St to Sydney St	D10 D10	Storm Storm	D10DMH3005 D10DMH3010	D10DMH2635 D10DMH3005	D10DMH3005_D10DMH2635 D10DMH3010 D10DMH3005	3/15/2018 3/15/2018	12 12	RCP RCP	Y	Y	N Y	24 210	N Y	1
	real St to Sydney St	D10	Storm	FIT6785	D10DMH3005 D10DMH3010	FIT6785 D10DMH3010	3/13/2018	15	UNK	N N	N	ı	135	T T	1
	Magazine St to Pearl St	D12	Storm	D12DMH7405	D12DMH7510	FITT3457_D12DMH7405	3/23/2018	42	RCP	Y	Y	Y	249.8	Y	4
Hamilton Street		D12	Storm	D12DMH7405	D12DMH7310	D12DMH7405_D12DMH7310	2/26/2018	36	RCP	Y	Y	N	218	Y	1
	Brookline St to Pearl St	D12	Storm	D12DMH8810	D12DMH8805	D12DMH8810_D12DMH8805	2/26/2013	12	RCP	N	Y	N	335	Y	2
		D12 D12	Storm	D12DMH8805	D12DMH7310 D12DMH6405	D12DMH8805_D12DMH7310 FIT7347 D12DMH6405	2/26/2013	12 15	RCP RCP	N N	Y	N	12 37	N N	
	Brookline St to Sidney St	D12	Storm Storm	D12DMH6410 D12DMH6460	D12DMH6410	D12DMH6460_D12COM6405	2/27/2008	15	VCP	Y	Y	N N	310	Y	3
		D12	Storm	FIT7384 (labeled as UNKNOWN in	D12DMH0950			15	RCP	Y	Y	Y	81		
Henry St	Sidney St			report)		FIT7384_D12DMH0950	3/8/2018							N	
Kelly Road	Pleasant St to Magazine St	D12	Storm Storm	D12DMH7915 D12DMH7910	D12DMH7910 D12DMH7540	D12DMH7915_FIT7117 FIT7273_D12DMH7540	11/5/2014 11/5/2014	15 18	RCP RCP	N N	Y	N N	231 172	N N	
		D12	Storm	D12DMH7540	D12DMH7537	D12DMH7540_D12DMH7535	2/28/2018	18	RCP	Y	Y	Y	48	Y	1
Lauranaa Straat	Magazina Chroat to Doorl Street	D12	Storm	D12DMH6805	D12DMH6625	D12DMH6805_D12DMH6625	9/21/2012	12	RCP	N	Y	Υ	16	N	-
Lawrence Street	Magazine Street to Pearl Street	D12	Storm	D12DMH6810	D12DMH6805	D12DMH6810_D12DMH6805	2/26/2018	12	RCP	Y	Y	N	212	N Y	1
		D10	Storm	D10DMH2110	D10DMH2105	D10DMH2110_D10DMH2105	2/8/2017	12	RCP		Y	N	305	·	1
Lopez Street	Pearl St to Brookline St	D10	Storm	D10DMH2105	D10DMH2010	D10DMH2105_D10DMH2010	2/8/2017	12	RCP	Y	Y	Y	14	N	
		D10 D10	Sewer Sewer	S23SMH3220 S23SMH3215	S23SMH3215 S23SMH3210	\$23\$MH3220_\$23\$MH3215 \$23\$MH3215_\$23\$MH3210	2/28/2017 2/28/2017	8	VCP VCP	Y	N N	UNK	194 232	NA NA	NA NA
	Auburn St to William St	D12	Storm	D12DMH7570	D12DMH7563	D12DMH7570_D12DMH7563	11/19/2014	24	RCP	N	Y	Y	182	Y	1
	William St to Cottage St	D12	Storm	D12DMH7560	D12DMH7550	D12DMH7560_D12DMH7550	11/24/2014	24	RCP	N	Y	N	220	Y	3
	Cottage St to Upton St	D12	Storm	D12DMH7550	D12DMH7547	D12DMH7550_D12DMH7547	11/25/2014	30	RCP	N	Y	N	264	Y	2
		D12	Storm	D12DMH7547	D12DMH7544	D12DMH7547_FIT7326	11/25/2014	30	RCP	N	Υ	N	121	Υ	2
	Upton St to Kelly Rd	D12	Storm	D12DMH7544	D12DMH7537	FIT6827_D12DMH7537	11/3/2014	30	RCP	N	Υ	N	234	Y	4
Magazine St	Kelly Rd to Chaulk St	D12	Storm	D12DMH7537	D12DMH7530	D12DMH7537_FIT7130	11/4/2014	36	RCP	N	Y	N	236	Y	4
		D12	Storm	D12DMH7535	D12DMH7525	FITT3461_D12DMH7525	11/7/2014	24	RCP	N	Y	N	234	Y	2

Street	Area	Catchment Area	Туре	Upstream Manhole	Downstream Manhole	GIS FacilityID	CCTV Date	Pipe Size (in)	Pipe Material	Report (Y/N)	Video (Y/N)	Stagnant Flow Visible (Y/N)	CCTV Pipe Length (ft)	Lateral Connections into SD (Y/N/NA)	No. of Lateral Connections into SD (#)
	Chaulk St to Fairmont St	D12	Storm	D12DMH7530	D12DMH7520	FITT3459_D12DMH7520	11/4/2014	36	RCP	N	Υ	Υ	240	Y	3
	Fairmont St to Hamilton St	D12	Storm	D12DMH7520	D12DMH7510	D12DMH7520_FITT3456	11/6/2014	36	RCP	N	Υ	Υ	170	N	
	Auburn St to William St	D12	Storm	D12DMH1750	D12DMH7560	D12COM7570_D12DMH7560	11/24/2014	24	RCP	N	Υ	N	210	Y	4
	Fairmont St to Price St	D12	Storm	D12DMH7525	D12DMH7515	D12DMH7525_D12DMH7515	4/4/2018	24	RCP	Y	Υ	Υ	162	Υ	1
	Clinton St to Bigelow St	D10	Storm	D10DMH3600	D10DMH3595	D10DMH3600_D10DMH3595	3/26/2018	15	PVC	Y	Υ	Υ	101.8	Υ	1
		D10	Storm	D10DMH3595	D10DMH3590	D10DMH3595_D10DMH3590	3/26/2018	15	PVC	Y	Υ	Υ	145	Υ	1
	Bigelow St	D10	Storm	D10DMH3590	D10DMH3265	D10DMH3590_D10DMH3265	3/26/2018	15	PVC	Y	Y	Υ	29	N	
	Bigelow St to Pleasant St	D10	Storm	D10DMH3265	D10DMH3260	D10DMH3265_D10DMH3260	3/26/2018	12	PVC	Y	Y	Y	271	Y	9
	Pleasant St to Temple St	D10	Storm	D10DMH3260	D10DMH3257	FITT0027_D10COM3255	3/26/2018	15	PVC/RCP	Υ	Y	Υ	189	Y	2
		D10	Storm	D10DMH3257	D10DMH3255	FITT3261_D10DMH3255	3/26/2018	18	DI	Y	Y	Υ	42	N	
Mass Ave		D10	Storm	D10DMH3255	D10DMH3250	D10DMH3255_D10COM3250	3/27/2018	20x18	Brick	Y	Y	Υ	137	Υ	2
IVIASS AVE	Temple St to Prospect St	D10	Storm	D10DMH3250	D10DMH3245	D10DMH3250_D10DMH3245	3/27/2018	18	DI	Y	Y	N	23	N	
		D10	Storm	D10DMH3245	D10DMH3240	D10DMH3245_D10DMH3240	3/27/2018	18	DI	Y	Υ	N	69	N	
		D10	Storm	D10DMH3240	D10DMH3235	D10DMH3240_D10DMH3235	3/27/2018	24	DI	Y	Y	Y	32	N	
	Magazine St	D10	Storm	D10DMH3235	D10DMH3230	D10DMH3235_D10DMH3230	3/27/2018	24	DI	Y	Υ	Υ	25	N	
	-	D10	Storm	D10DMH3230	D10DMH3225	D10DMH3230_D10DMH3225	7/17/2018	24	Brick	Y	Υ	N	62	Y	3
	Propsect St to Essex St	D10	Storm	D10DMH3225	D10DMH3223	D10DMH3225_D10DMH3223		24	CIP	N	N		328		
		D10	Storm	D10DMH3223	D10DMH3220	D10DMH3223_D10DMH3220	7/1/1918	24	CIP	Y	Υ	Υ	8	UNK	N/A
	5 60 1 6 11 6	D10	Storm	D10DMH3340	D10DMH3215	D10DMH3340_D10DMH3215	= /+ 0 /0 0 + 0	24	DI	N	N		45		
	Essex St to Norfolk St	D10	Storm	D10DMH3220	D10DMH3215	D10COM3220_D10DMH3215	7/16/2018	24	CIP	Υ	Y	N	12	N	N/A
		D10	Storm	D10DMH3215	D10DMH3210	D10DMH3215_FITT3268	7/16/2018	29x27	CIP	Y	Υ	N	142	Υ	2
		D10	Storm	D10DMH3210	D10DMH2650	FITT3293 FITT3270	7/16/2018	29x27	CIP	Υ	Y	N	285	Υ	1
		D10	Storm	D10DMH2005	D10DMH0550	D10DMH2005 D10DMH0550	2/4/2008	24	RCP	N	Y	N	22	N	
		D10	Storm	D10DMH2005 (Suspect D10DMH0550)	D10DMH0545	D10DMH0550_D10DMH0545	4/10/2006	54x64	Brick	N	Υ	Υ	482		
	Brookline St to Sidney St	D10	Storm Sewer	D10DMH0550 S23SMH0035	D10DMH0545 S23SMH0025	D10DMH0550_D10DMH0545  S23SMH0035 S23SMH0025	3/2/2017	54x64 24	Brick VCP	Y	N N	UNK	482 506	Y	10 NA
		D10	Sewei	523SIVIHUU35	3233141110023	3233IVIHUU33_3233IVIHUU23	5/2/2017	24	VCP	ı	IN	UNK	300	INA	IVA
	Sidney St to Landsdowne St	D10	Storm	D10DMH0545	D10DMH0540	D10DMH0545_D10DMH0540	4/10/2006	54x64	Brick	N	Y	Υ	264	Y	6
Pacific Street	Landsdowne St to Purrington St	D10	Storm	D10DMH0540	D10DMH0530 (Suspect D10DMH0535)	D10DMH0540_D10DMH0535	4/11/2006	60	Brick	N	Y	Υ	90	Y	4
r delile street		D10	Storm	D10DMH0535	D10DMH0530	D10DMH0535_D10DMH0530	4/11/2006	60	Brick	N	Υ	Υ	170	Υ	1
	Purrington St to Albany St	D10	Storm	D10DMH0530	S22COM0010 (Suspect D10DMH0525)	D10DMH0530_D10DMH0525	4/11/2006	60	Brick	N	Υ	Υ	253	Y	4
	Albany St	D10	Storm	D10DMH0525	1007303	D10DMH0525_1007303		10		N	N		27		
	Albally St	D10	Storm	D10DMH0525	D10DMH0520	D10DMH0525_D10DMH0520	3/29/2018	60	RCP	Y	Y	Υ	21	N	
	Albany St to Vassar St	D10	Storm	D10DMH0520	D10DMH0242	FITT2093_D10COM0242	3/29/2018	60	RCP	Y	Y	Υ	443	Y	16

Street	Area	Catchment Area	Туре	Upstream Manhole	Downstream Manhole	GIS FacilityID	CCTV Date	Pipe Size (in)	Pipe Material	Report (Y/N)	Video (Y/N)	Stagnant Flow Visible (Y/N)	CCTV Pipe Length (ft)	Lateral Connections into SD (Y/N/NA)	No. of Lateral Connections into SD (#)
	Green St to Massachusetts Ave	D10	Storm	D10DMH3310	D10DMH3215	D10DMH3310_D10DMH3215	3/15/2018	18	PVC/RCP	Y	Y	N	211	Y	8
		D10	Storm	D10DMH3315	D10DMH3310	D10DMH3315_D10DMH3310		18	RCP	N	N		16		
	Franklin St to Green St	D10	Storm	D10DMH3320	D10DMH3315	D10DMH3320_D10DMH3315	3/15/2018	12	RCP	Y	Υ	Υ	23	Υ	1
		D10	Storm	D10DMH3325	D10DMH3320	D10DMH3325_D10DMH3320	3/15/2018	12	RCP	Y	Y	N	122	N	
	Auburn St to William St	D12	Storm	D12DMH6650	D12DMH6648	D12DMH6650_D09DMH6648	9/18/2012	15	RCP	N	Υ	Υ	106	N	
	Addan St to William St	D12	Storm	D09DMH6648	D09DMH6645	D12DMH6648 D09DMH6645	9/18/2012	15	RCP	N	Y	N	111	N	
	Malli Ciri Ciri Cir	D12	Storm	D09DMH6645	D12DMH6640	D09DMH6645 D12DMH6640	9/19/2012	18	RCP	N	Y	Y	68	N	
	William St to Cottage St	D12	Storm	D12DMH6640	D12DMH6636	D12DMH6640_D12DMH6636	9/19/2012	18	RCP	N	Υ	N	151	N	
Pearl Street	Cottage St to Perry St	D12	Storm	D12DMH6636	D12DMH6630	D12DMH6636_D12DMH6630	9/21/2012	24	RCP	N	Υ	Υ	293	UNK	
	Perry St to Lawrence St	D12	Storm	D12DMH6630	D12DMH6625	D12DMH6630_D12DMH6625	9/21/2012	24	RCP	N	Y	Y	240	N	
	Laurana Stata Carra Ma-Tarra an St	D12	Storm	D12DMH6625	D12DMH6620	D12DMH6625_D12DMH6620	9/24/2012	24	RCP	N	Y	N	108	N	
	Lawrence St to Corp McTernan St	D12	Storm	D12DMH6620	D12DMH6615	D12DMH6620_D12DMH6615	9/24/2012	24	RCP	N	Υ	N	125	Y	1
	Corp McTernan St	D12	Storm	D12DMH6615	D12DMH6610	D12DMH6615_D12DMH6610	2/26/2018	24	RCP	Υ	Y	N	7	N	
	Corp McTernan St to Erie St	D12	Storm	D12DMH6610	ACCESS352	D12DMH6610_FITT3773	2/26/2018	40x26	RCP RCP	Y (ref: "ACCESS"	') Y	N N	229	Y	1
	Putnam Ave to Allston St	D12 D12	Storm Storm	D12DMH7325 D12DMH7320	D12DMH7320 D12DMH7315	D12DMH7325_D12DMH7320 D12DMH7320_D12DMH7315	2/26/2013 2/25/2013	15 24	RCP	N N	Y	N N	314 237	N N	
	Allston St to Hamilton St	D12	Storm	D12DMH7315	D12DMH7313	D12DMH7315 D12DMH7310	2/26/2013	24	RCP	N	Y	N	16	N	
	Hamilton St to Erie St	D12	Storm	D12DMH7305	S29COM0055 (Suspect ACCESS352)	S29SMH1315_S29SMH0055	10/13/2009	40x26	RCP	N	Υ	Y	221	Y	5
	Hamilton St	D12	Storm	D12DMH7310	D12DMH7305	D12DMH7310_D12DMH7305	2/26/2018	36	RCP	Υ	Υ	Υ	14	N	
Porny Stroot		D12	Storm	D12DMH6910	D12DMH6905	D12DMH6910_D12DMH6905	9/21/2012	12	RCP	N	Υ	N	247	N	
Perry Street	Magazine Street to Pearl Street	D12	Storm	D12DMH6905	D12DMH6630	D12DMH6905_D12DMH6630	2/28/2018	12	RCP	Υ	Υ	N	15	N	
		D10	Storm	D10DMH2425	D10DMH2422	D10DMH2425_D10DMH2422	2/27/2017	18	RCP	Υ	Υ	N	71	Υ	1
	Landsdowne St to Brookline Pl	D10	Storm	D10DMH2422	D10DMH2420	D10DMH2422_D10DMH2420	2/27/2017	18	RCP	Υ	Υ	N	66	Y	2
		D10	Storm	D10DMH2420	D10DMH2415	D10DMH2420_D10DMH2415	2/27/2017	18	DI	Y	Υ	N	86	N	
Pilgrim Street		D10	Storm	D10DMH2410	D10DMH2405	D10DMH2410_D10DMH2405	2/28/2017	18	RPM	Υ	Υ	Y	55	N	
		D10	Storm	D10DMH2405	D10DMH1340	D10DMH2405_D10DMH1340	2/28/2017	48	RPM	Y	N	UNK	105	N	
	Brookline Pl to Brookline St	D10	Storm	D10DMH2415	D10DMH2410	D10DMH2415_D10DMH2410	2/28/2017	18	RPM	Y	N	UNK	49	N	N/A
		D10 D10	Sewer Sewer	S23SMH0805 S23SMH0815	S23SMH0815 S23SMH0800	\$23\$MH0805_\$23\$MH0815 \$23\$MH0815_\$23\$MH0800	2/27/2017 2/27/2017	12 12	PVC PVC	Y	N N	UNK	21 190	NA NA	NA NA
		D10	Storm	D10DMH2405	D10DMH1340	D10DMH2405_D10DMH1340	3/16/2018	24	PE	Y	Y	Y	103	N N	INA
		D10	Storm	D10DMH2415	D10DMH2410	D10DMH2415_D10DMH2410	3/16/2018	18	PE	Υ	Υ	Υ	46	N	
	Newton St to Pearl St			D12DMH9110A	D12DMH9105	D12DMH9110_D12DMH9105	3/1/2018	12	RCP	Υ	Υ	Υ	81	Υ	1
				D12DMH9110	D12DMH9110A	D12DMH9110_D12DMH9110A	3/1/2018	12	RCP	Υ	Υ	N	128	N	
	5 16	D12	Storm	D12DMH9105	D12DMH7325	D12DMH9105_D12DMH7325	3/1/2018	12	RCP	Y	Y	Y	26	N	
	Pearl St	D12 D12	Storm Storm	D12DMH9205 D12DMH9205	D12DMH7325 D12DMH7325	D12DMH9205_D12DMH7325 D12DMH9205_D12DMH7325-2	2/27/2018 3/1/2018	10 8	CP CAS	Y	Y	N N	28 28	N N	
		D12	Storm	D12DMH9203	D12DMH9210	D12DMH9205_D12DMH9210	2/27/2018	12	CP	Y	Y	Y	243	N	
Putnam Ave	Brookline St to Pearl St	D12	Storm	D12DMH9210	D12DMH9205	D12DMH9210 D12DMH9205	2/27/2018	10	CP	Y	Y	Y	250	N	
	Brookline St to Sidney St	D12	Storm	D12DMH0917	D12DMH0915	D12DMH0917_D12DMH0915	2/28/2018	15	RCP	Y	Υ	N	29	N	
		D12	Storm	D12DMH0915	D12DMH0913	D12DMH0915_D12DMH0913	2/28/2018	18	RCP	Y	Υ	Y	111	Y	1
	Sydney St to Grove Ave	D12	Storm	D12DMH0913	D12DMH0910	D12DMH0913_D12DMH0910	2/28/2018	18	RCP	Υ	Y	Υ	88	Y	1
	Grove Ave to Waverly St	D12	Storm	D12DMH0910	D12DMH0715	D12DMH0910_D12DMH0715	2/28/2018	18	RCP	Y	Y	N	209	N	
		D10 D10	Storm Storm	D10DMH2775 D10DMH2860	D10DMH2720 D10DMH2855	D10DMH2775_D10DMH2715 D10DMH2860 D10DMH2855	2/24/2017 3/6/2017	12	RCP RCP	Y	Y	N N	67 63	N N	
Salem Street	Auburn St to Watson St	D10 D10	Storm	D10DMH2860 D10DMH2855	D10DMH2855 D10DMH2810	D10DMH2860_D10DMH2855 D10DMH2855 D10DMH2810	3/6/2017	12 12	RCP	Y	N N	UNK	18	N N	
		D10	Sewer	S23SMH3810	S23SMH3715	S23SMH3810 S23SMH3715	3/6/2017	8	VCP	Y	N	UNK	225	NA NA	NA
	Franklin St to Pilgrim St	D10	Storm	ACCESS101	ACCESS100	D10UGS0015	3/23/2018	36"	RCP	Y	Y	Y	234	Y	9
		D10	Storm	ACCESS100	D10DMH1210	D10UGS0015	3/23/2018	36"	RCP	Y	Y	Υ	243.2	Y	6

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	Pilgrim St to Pacific St	D10	Storm	D10DMH1210	D10DMH0545	D10DMH1210_FIT1350	4/21/2006	38x36	Brick	N	Y	Υ	234	Y	6
	Tudos St to Docific St	D10	Storm	D10DMH0605	D10DMH0600	D10DMH0605_D10DMH0600	2/7/2008	18	RCP	N	Υ	N	36	N	
	Tudor St to Pacific St	D10	Storm	D10DMH0600	D10DMH0545	D10DMH0600_FIT7409/FIT7409_D10DMH0545	3/21/2018	20	RCP	Υ	Y	Υ	100	N	
		D10	Storm	D12DMH0425	D12DMH0615	D12DMH0425_D12DMH0615	3/21/2018	20	RCP	Y	Υ	Y	107	N	
	Emily St to Tudor St	D10	Storm	D12DMH0615	D10DMH0610	D10DMH0615_D10DMH0610	3/21/2018	20	RCP	Y	Y	Y	61	N	
Sidney Street	Allston St to Hamilton St	D10 D10	Storm Storm	D10DMH0610 D12DMH6505	D10DMH0605 D12DMH6500	D10DMH0610_D10DMH0605 D12DMH6505_D12DMH6500	3/21/2018 4/19/2017	20 18	RCP RCP	Y N	Y	Y N	77 165	N Y	1
		D12	Storm	D12DMH6500	D12DMH6405	D12DMH6500_D12DMH6405	4/20/2017	18	RCP	N	Y	N	48	N	
		D12	Storm	D12DMH6405	D12DMH6400	D12DMH6405_D12DMH6400	4/20/2017	18	RCP	N	Y	N	110	Υ	1
	Hamilton St to Erie St	D12	Storm	D12DMH6400	D12DMH0205 (labeled as D12DMH0200 in report, typo)	FIT7644_D12DMH0205	3/8/2017	18	RCP	Υ	Υ	Υ	116	Υ	
		D12	Storm	D12DMH0950	D12DMH0945	D12DMH0950 D12DMH0945	2/28/2018	15	RCP	Υ	Υ	N	30	N	
	Henry St to Chestnut St	D12	Storm	D12DMH0945	D12DMH0940	D12DMH0945_D12DMH0940	2/28/2018	15	RCP	Υ	Υ	N	103	N	
	Tiemy St to enestine St	D12	Storm	D12DMH0940	D12DMH0935	D12DMH0940_D12DMH0935	2/28/2018	18	RCP	Y	Y	N	150	N	
	Chastnut St. to Foot W. L	D12	Storm	D12DMH0935	D12DMH0930	D12DMH0935_D12DMH0930	2/28/2018	18	RCP	Y	Y	N	49	N	
	Chestnut St to Fort Washington Pl	D12 D12	Storm Storm	D12DMH0930 D12DMH0925	D12DMH0925 D12DMH0920	D12DMH0930_D12DMH0925	2/28/2018 2/28/2018	18 18	RCP RCP	Y	Y	N	41 208	N	1
	Chestnut St to Putnam Ave Fort Washington Pl	D12	Storm	D12DMH0920	D12DMH0915	D12DMH0925_D12DMH0920 D12DMH0920_D12DMH0915	2/28/2018	18	RCP	Y	Y	N Y	80	N	1
	rore washington in	D12	Storm	D12DMH6250	D12DMH0425	D12DMH6250_D12DMH0425	2/27/2018	10	VCP	Y	Y	Y	233	Y	2
		D12	Storm	D12DMH6250	D12DMH0425	D12DMH6250_D12DMH0425	2/27/2018	10	PE	Υ	Υ	N	9	N	
		D12	Storm	D12DMH0425	D12DMH0420	D12DMH0425_D12DMH0420A	2/27/2018	18	RCP	Y	Υ	Y	47	N	
	Emily St to Erie St	D12	Storm	D12DMH0420A	D12DMH0420	D12DMH0420A_D12DMH0420	2/27/2018	18	RCP	Υ	Υ	Υ	113	Υ	1
	,	D12	Storm	D12DMH0420	D12DMH0415	D12DMH0420_D12DMH0415	3/1/2018	18	RCP	Y	Y	N	26	Υ	1
		D12	Storm	D12DMH0420 D12DMH0415	D12DMH0415 D12DMH0405	D12DMH0420_D12DMH0415 D12DMH0415_D12DMH0405	3/1/2018 3/1/2018	15 15	RCP RCP	Y	Y	N N	77 164	Y	2
		D12	Storm	D12DMH0405	D12DMH0400	D12DMH0405_D12DMH0400	3/1/2018	15	RCP	Y	Y	Y	55	Y	1
	Allston St	D12	Storm	D12DMH1213	D12DMH1210	D12DMH1213_D12DMH1210	3/8/2018	18	RCP	Y	Y	Y	18	N	
Speridakis Terrace	Pearl St	D10	Storm	D10DMH2460	D10DMH2457	D10DMH2460_D10DMH2457	3/15/2018	10	PVC/VCP	Υ	Y	N	216	N	
Tudor Street	Brookline St to Sidney St	D10	Storm	D10DMH1155 (Also labeled \$23COM0710?)	D10DMH0720	D10DMH1155_D10DMH0720	2/8/2017 & 2/7/2008	10	VCP	N	Y	Y	375	Y	8
		D10	Storm	D10DMH0720	D10DMH0605	D10DMH0720_D10DMH0605	3/23/2018	18	RCP	Υ	Y	Y	36	N	N/A
		D10	Storm	FIT8197	D10DMH2105	FIT8197_D10DMH2105		18	RCP	N	N		45		
Upton Street	Pleasant St to Magazine St	D12	Storm	D12DMH8010	D12DMH8005	D12DMH8010_FIT7000	10/28/2014	15	VCP	N	Y	N	247	Y	4
		D12	Storm	D12DMH8005	D12DMH7545	FIT7267_D12DMH7545	10/28/2014	15	RCP	N	Υ	Y	201	Υ	1
		D12	Storm	D12DMH7545	D12DMH7544	D12DMH7545_D12DMH7544	10/28/2014	15	RCP	N	Y	N	19	N	
		D10	Storm	D10DMH2330	D10DMH2315	D10DMH2330_D10DMH2315	3/23/2017	15	RCP	N	Υ	Y	249	Υ	6
Valentine Street	Pearl St to Brookline St	D10	Storm	D10DMH2315	D10DMH2020 (Suspect D10DMH2032)	D10DMH2315_D10DMH2032	3/23/2017	15	RCP	N	Y	Y	30	Y	1
		D10	Storm	D10DMH2455	D10DMH2310	D10DMH2455_D10DMH2130	3/23/2017	10	PVC	N	Υ	Y	157	N	-
		D10	Storm	D10DMH2020 (Suspect D10DMH2032)	D10DMH2031	D10DMH2032_D10DMH2031	3/23/2017	15	RCP	N	Y	Y	16	N	
		D10	Storm	D10DMH2031	D10DMH2030	D10DMH2031_D10DMH2030	3/24/2017	15	PVC	N	Y	Y	175	Y	4
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		D10	Storm	D10DMH1120	D10DMH1115	D10DMH1120_D10DMH1115	3/30/2018	15	RCP	Y	Υ	Υ	92	N	
		D10	Storm	D10DMH1115	D10DMH1110	D10DMH1115_D10DMH1110	3/30/2018	18	RCP	Y	Y	Υ	201	Υ	1
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Street	Area	Catchment Area	Туре	Upstream Manhole	Downstream Manhole	GIS FacilityID	CCTV Date	Pipe Size (in)	Pipe Material	Report (Y/N)	Video (Y/N)	Stagnant Flow Visible (Y/N)	CCTV Pipe Length (ft)	Lateral Connections into SD (Y/N/NA)	No. of Lateral Connections into SD (#)
		D10	Storm	D10DMH0280	D10DMH0241	D10DMH0280_D10DMH0241		24	RCP	N	N		101		
	Amhurst Ally to Mass Ave	D10	Storm	D10DMH0290	D10DMH0241	D10DMH0290_D10DMH0241		24	RCP	N	N		35		
Vassar St	,, ,, ,, ,	D10	Storm	D10DMH6965	D10DMH0290	S22COM0750_D10DMH0290		24	UNK	N	N		208		
		D10	Storm	FIT0006	D10DMH6965	FITT0006_D10DMH6965	3/30/2018	24	DI	Y	Υ	Y	152	N	
		D10	Storm	D10DMH6975	FIT0006	D10DMH6975_FITT0006	3/30/2018	24	DI	Y	Y	Y	54	N	
		D10	Storm	D10DMH6980	D10DMH6975	D10DMH6980_D10DMH6975	3/30/2018	21	RCP	Y	Y	Y	51	N	
		D10	Storm	D10DMH6985	D10DMH6980	D10DMH6985_D10DMH6980	3/30/2018	12	RCP	Y	Y	Y	20	N	
	Pacific St	D10	Storm	D10DMH6990	D10DMH6985	D10DMH6990_D10DMH6985	3/30/2018	12 69x64	RCP Brick	Y Y	Y	Y	101	N	
	Pacific St	D10 D10	Storm	D10DMH0242 S22COM0025	D10DMH0241 D10DMH0242	D10COM0241_D10COM0235	3/29/2018	12	UNK	N Y	N N	Y	15 49	N	
		D10 D10	Sewer Sewer	S22COM0025 S22COM0020	D10DMH0242 D10DMH0242	S22SMH0020 FIT9278	3/29/2018	12	VCP	<u> </u>	Y	Y	0.1		
		D10	Storm	D10DMH2720	D10DMH0242 D10DMH2715	D10DMH2720 D10DMH2715	2/24/2017	12	VCP	Y	Y	Y N	18	N	
Watson Street	Pearl St to Brookline St	D10	Storm	D10DMH2715	D10DMH2712	D10DMH2715_D10DMH2712	2/24/2017	12	VCP	Y	Y	Y	181	N	
		D10	Storm	D10DMH2712	D10DMH2710	D10DMH2712_D10DMH2710	2/24/2017	12	PVC	Υ	Υ	N	184	Υ	1
		D10	Storm	D10DMH2710	D10DMH2705	D10DMH2710_D10DMH2705	2/24/2017	12	VCP	Υ	Υ	N	18	N	
		D10	Sewer	S23SMH3415	S23SMH3410	S23SMH3415_S23SMH3410	2/24/2017	8	VCP	Υ	N	N	182	NA	NA
		D10	Sewer	S23SMH3410	D10DMH2705	S23SMH3410_D10DMH2705	2/25/2017	8	VCP	Υ	N	N	245	NA	NA
		D10	Storm	FIT1420	D10DMH2720	FIT1420_D10DMH2720	3/16/2018	10	RCP	Υ	Υ	N	40	N	
	Erie St to Talbot St	D12	Storm	D12DMH0815	D12DMH0815A (Suspect D10DMH0810)	FIT7415_FIT7440	4/18/2017	15	RCP	N	Y	N	236	Y	3
		D12	Storm	D12DMH0810	D12DMH0805	FIT7441_D12DMH0805	4/18/2017	18	RCP	N	Υ	Υ	160	N	
	Merriam St to Pacific St	D10	Storm	D10DMH1250	D10DMH1245	D10DMH1250_D10DMH1245	7/8/2016	12	RCP	N	Υ	N	329	N	
	Werriam St to Facilit St	D10	Storm	D10DMH1245	D10DMH1240	D10DMH1245_D10DMH1240	7/8/2016	12	DI	N	Υ	Υ	109	N	
		D12	Storm	D12DMH0715	D12DMH0710	D12DMH0715_D12DMH0710		30	RCP	N	N		179		
	Putnam Ave to Talbert St	D12	Storm	D12DMH0710	D12DMH0705	D12DMH0710_D12DMH0705		30	RCP	N	N		93		
		D12	Storm	D12DMH0705	D12DMH0700	FIT7435_D12DMH0705	3/6/2018	30	RCP	Y	Y	N	27	N	
Waverly Street		D12	Storm	D12DMH0805	D12DMH0705	D12DMH0805_D12DMH0705	3/6/2018	30	RCP	Y	Y	Υ	73	N	
	Putnam Ave To Erie St	D12	Storm	D12DMH0605	D12DMH0700	D12DMH0605_FIT7436	3/6/2018	54	RCP	Y	Υ	N	30	N	
		D12	Storm	ACCESS231	D12DMH0605	FIT7417_D12DMH0605	3/6/2018	54	RCP	Υ	Y	N	467	Υ	2
	Albany St (Erie St)	D12	Storm	D12DMH6210	D10DMH0305	D12DMH6210_D10DMH0305	3/9/2018	12	RCP	Y	Υ	Y	38	Y	1
				D12DMH6210	D12DMH0308 (suspect D12DMH0305)	D12DMH6210_D12DMH0308	3/8/2018	10	PVC	Y	Υ	Υ	123	N	
				D12DMH0308 (suspect D12DMH0305)	D10DMH0240	D12DMH0308_D10DMH0240	3/8/2018	12	RCP	Υ	Υ	Υ	8	N	
	Putnam St to Chestnut St	D12	Storm	D12DMH0720	D12DMH0715	D12DMH0720_D12DMH0715		30	RCP	N	N		214		
		D12	Storm	D12DMH8215	D12DMH8210	FITT0245_FIT6643	11/19/2014	15	VCP	N	Υ	N	185	Y	1
	River Street to Magazine Street	D12	Storm	D12DMH8210	D12DMH7563	FIT7319_D12DMH7563	11/19/2014	18	RCP	N	Υ	Υ	185	Υ	1
William Street		D12	Storm	D12DMH7563	D12DMH7560	D12DMH7563_D12DMH7560	4/30/2008	18	PVC	N	Υ	N	12	N	
	Magazine St to Pearl St	D12	Storm	D12DMH7110	D12DMH7105	D12DMH7110_D12DMH7105	9/18/2012	12	RCP	N	Y	N	263	N	
		D12	Storm	D12DMH7105	D09DMH6645	D12DMH7105_D09DMH6645	9/18/2012	12	RCP	N	Υ	Υ	17	N	





## APPENDIX D BUILDING INSPECTION RESULTS TABLE

#### Cambridgeport Stormwater Improvements (IDDE) Buildings Inspected Date: 4/20/2021



No	itreet	Building No.	Drain Laterals	Drain Lateral Location	Building Type	Owners Contact Information	Building Contact Information	Scheduled Inspection	Actual Inspection	Confirmed Compliant by Inspection (Y/N)	Uploaded Inspection Form	Mailed Certified Letter	Certified Letter Received	Notes
				2 laterals on Pacific St		MIT Office of the Treasurer 238 Main St - Suite 200								
1	Albany	235		4 2 laterals on Albany St	Dorm	Cambridge, MA 02142			Monday 8/6/2018 9:30 AM	У	Y			
														Dye test during initial inspection was
														not observed in sewer or stormwater manhole. After reviewing MIT plans
						MIT Office of the Treasurer								observed there were sewer pumps. Second dive test was done directly in
						238 Main St - Suite 200			8/6/2018					sever pumps until it set released to sewer on Pacific St.
- 2	Albany	224		S S laterals on Pacific St	University	Cambridge, MA 02142			Wednesday 8/15/2018 8:00 AM	x .	*			Dye test during initial inspection was
														not observed in sewer or stormwater manhole; suspected dye was getting
						MIT Office of the Treasurer								backed up in internal pipeline. Second dye testing was done in cleanout
	. Hanner	100		7 7 laterals on Pacific St	Habanita.	238 Main St - Suite 200 Cambridge, MA 02142			8/6/2018 Wednesday 8/15/2018 8:30 AM	v	v			before sewer service leaves building to Albany St.
	dibally	150		/ / laterals on Facility St	Oniversity	MIT Office of the Treasurer 238 Main St - Suite 200			Wednesday of 19/1010 0.30 Peri					Pilouity St.
4	Albany	230		2 2 laterals on Albany St	University	Cambridge, MA 02142 BMR-270 Albany St LLC			Wednesday 8/15/2018 9:00 AM	Y	Y			
						5694 Mission Center Rd, 602-800								
5	Albany St	2/0	1	1 lateral on Albany St	Commercial	San Diego, CA 92108		Joe Medeiros	Wednesday, 6/13/18 11:00AM					
						MIT Office of the Treasurer 238 Main St - Suite 200	Celeste Brooks celeste.brooks@am.jll.com	617-780-9078 jmedeiros@emcor.net						
6	Albany St	281	2	2 laterals on Albany St	Commercial	Cambridge, MA 02142 Unit 1: Jacob Ben-David Zimmerman	617-386-6810	Taju Animashaun	Monday, 6/25/18 10:30 AM	Y	Y			
						43 Allston St, Cambridge MA 02139 Unit 2: Smith, Magie L.								
						43 Allston St, Cambridge MA 02139 Unit 3: Park, Daniel J & Susan Y Park	Danny Park							
7 8	Allston St Brookline St	43 201	2	2 laterals on Allston St 1 lateral on Erie St	Multi-Residential Residential	43 Allston St, Cambridge MA 02139	dpark01@gmail.com	Monday 6/25/18 Unit 4: 8:30 AM 10/10/18	Monday 6/25/18 10/10/2018	Y Y	Y Y			
9	Brookline St	105/107	1	1 lateral on Brookline St	Residential	Ann Realty Corporation P.O. Box 2215, Action, MA 01720-2215	Tom Norman, Unit #2: 413-363-3472	Unit #2: Tueaday 4/3/18 10:00AM	Unit #2: Tueaday 4/3/18 10:00AM	Υ	Y			
						Real Estate Management and Investment 103 Hemenway St, Boston MA 02115								
						617-421-9900 Koplow, Rose TR OF								
						C/O 76 Wellesley Rd LLC 103 Hemenway St STE #B2						Real Estate Management and Investment		
10	Brookline St	25		1 1 lateral on Franklin St	Multi-Residential	Boston MA 02115 (Contacted 7/16/18)			9/19/2018	×		103 Hemenway St, Boston MA 02115	v	
10	TOOMING SK	33		2 Include the manual of	With Headerston	Central Property Limited Partnetship C/O Riverside			3/13/1010					
11	Brookline St	19		1 1 lateral on Brookline St	Commercial	PO Box 440317, West Somerville, MA 02144 (Contacted 7/17/18)	Berry Smith, 617-719-6432 David Kender, 415-515-3584	Wednesday, 9/12/2018	9/12/2018	×	×			
-11	TOOMING SC			2 International Comments	COMMICCOM	Craigie Associattes LLC 907 Mass Ave, Cambridge MA 02139	5440 KEIGEI, 415-515-5504	rediciony, 3/11/2010	3/11/1010			Craigie Associattes LLC 907 Mass Ave, Cambridge		
12	Brookline St	21		2 laterals on Brookline St	Residential	617-868-6254 Auburn Court Apartments	Ralph, (617) 547-6559		8/31/2018	У	Y	MA 02139	Y	
13	Brookline St	70		2 laterals on Brookline St	Residential	Madilyn Joyce, 617-354-6061 Auburn Court Apartments		Friday, 9/7/2018	Friday, 9/7/2018	У	Y			
14	Brookline St	68		1 lateral on Brookline St	Residential	Madilyn Joyce, 617-354-6061 Auburn Court Apartments		Friday, 9/7/2018	Friday, 9/7/2018	Y	Y			
15	Brookline St	66		1 lateral on Brookline St	Residential	Madilyn Joyce, 617-354-6061		Friday, 9/7/2018	Friday, 9/7/2018	Y	Y	Raymond, Monica		
						ad Marin						S7 Brookline St,		
16	Brookline St	57/59		2 2 lateral on Brookline St	Residential	Raymond, Monica 57 Brookline St, Cambridge MA 02139-4141			Friday, 9/7/2018	Y	Y	Cambridge MA 02139- 4141		
						Cotter, Amy A. 53 Brookline St, Cambridge MA 02139 617-416-4003								
						55 Brookline St, Cambridge MA 02139			Unit 55: 8/6/2018 8:00AM					
17	Brookline St	53/55		3 3 laterals on Brookline St	Residential	55 Brookline St, Cambridge MA 02139 617-388-9510			Unit 55: 8/6/2018 8:00AM Unit 53 8/6/2018 3:00PM	у	Y			
												Unit 1: Kurdziel, Anne 99 Brookline St,		
						Unit 1: Kurdziel, Anne						Cambridge MA 02139 Unit 2: HSU, Gilbert T 99 Brookline St		
						99 Brookline St, Cambridge MA 02139 Unit 2: HSU, Gilbert T						Cambridge MA 02139		
						99 Brookline St, Cambridge MA 02139 Unit 3: Hammond Khaled						Unit 3: Hammond Khaled 99 Brookline St,		
18	Prookline St	99		1 1 lateral on Brookline St	Residential	99 Brookline St, Cambridge MA 02139	Unit 3: Jay O'Connell 617-504-4297	Unit 1: 8:00AM 10/10/18 Unit: 3: 10:30AM 10/10/18	10/10/2018 Unit 3: 10/10/18	Υ	Y	Cambridge MA 02139		
19	Brookline St	155	Unk		Residential		ejayo1963@hamil.com Unit 1: Guillermo Gonzales ggonz49@yahoo.com	Unit 1: 12:00 PM 10/10/18	Unit 1: 10/10/18 Unit 4: 9/27/18	Y	Y			
						Brigs Property Management 376 Mass Ave, Arlington, MA 02474								
20	Corporal McTernan St	20	6	6 laterals on Corporal McTernan St	Apartment Building	781-648-9600 Unit 199: Lutz, Jeremey & Lynn Ann Simpson			5/16/2018	У	Y			
21	rie St	199/201	2	2 laterals on Erie St	Multi-Residential	Unit 201: Yamashita, Dennis, Trustee, The Dennis S. Yamashita Trust	Lynn Simpson, lynnsimpson@gmail.com	Wednesday, 5/16/18 11:00 AM	Wednesday, 5/16/18 11:30 AM	у	у			
						C/O Paradigm Tax Group, LLC 5694 Mission Center Rd, 602-800								
22	irie St	47	4	4 laterals on Erie St	Parking Garage	San Diego, CA 92108 C/O Paradigm Tax Group, LLC			Wednesday, 6/13/18 10:00AM	Y	Y			
23	irie St	21	5	5 laterals on Erie St	Commercial	5694 Mission Center Rd, 602-800 San Diego, CA 92109			Wednesday, 6/13/18 10:30AM	Y	Y			
						C/O Paradigm Tax Group, LLC 5694 Mission Center Rd, 602-800	Paul Koslowski	Jeff Chase: 617-551-5923 858-243-2817	Wednesday, 3/31/2021					
24	rie St	40	3	3 laterals on Sidney St	Commercial	San Diego, CA 92110	paul.koslowski@biomedrealty.com	858-243-2817	Thursday, 7/12/18 2:00 PM	Y	Y			

25 Erie St	150	2	2 laterals on Erie St	Apartment Building	Cambridge Housing Authority	Zelda, 617-499-7007	Thursday 7/19/18 9:30 PM	Thursday 4/19/18 7:30AM Y				
25 Erië St	150	2	2 laterals on Erie St	Apartment Building	Cambridge Housing Authority	Zelda, 617-499-7007	Inursday 7/19/18 9:30 PM	Inursday 4/19/18 7:3UAM 1	T T			
26 Erie St	133	1	1 lateral on Erie St	Residential				9/27/2018 Y	Y			
					Huang, Chia-Ling 98 Sharon St	Army Huane	151/153/165: 9:00AM 10/10/18					
27 Erie St	153/151/161/163	1	1 lateral on Erie St	Residential	98 Sharon St Medford MA 02155	Amy Huang 617-306-3434	161: 11:00AM 10/10/18	10/10/2018 Y	Y			
					Unit 14: Mary Lou Sullivan							
28 Erie St	98			Multi-Residential	617-416-6325			Tuesday 8/7/2018 8:00AM Y	Y			
29 Erie St	00			Commercial				9/12/2018 Y				
25 Elle St	55			Commercial		64 Magee St						
30 Fairmont St	6	1	1 lateral on Magazine St	Multi-Residential	Cambridge Housing Authority	jwhalen@cambridge-housing.org 617-499-7114	Wednesday 6//18/18 Thursday 7/17/18: 8:00 AM	Unit 1: Wednesday 6/18/18 Unit 2,3,4,5: Thrusday 7/19/18 8:00AM\ Y	Y			
					Cambridge Housing Authority Craigie Associattes LLC 907 Mass Ave, Cambridge MA 02139					Craigie Associattes LLC		
					617-868-6254					907 Mass Ave, Cambridge MA 02139		
31 Franklin St	177		1 lateral on Franklin St	Multi-Residential	(Contacted 7/16/18) Chapel St Trust	Ralph, (617) 547-6559		8/31/2008 Y	Y	All Bright Real Estate 1247A Commonwealth	Y	
					Tracy 617-733-4488					Ave		
32 Green St	197	1	1 lateral on Green St	Multi-Residential	(Contacted 7/16/18)	Dave, 617-783-9151	11/13/2018 10:3	11/13/2018 10:30 Y	Y	Allston, MA 02134	Y	
						Cathy Zusy 202 Hamilton St Cambridge MA				Zusy Catherine and Samuel C Kendall		
33 Hamilton St	202	1	1 lateral on Hamilton St	Residential	Zusy, Catherine and Samuel C Kendall 202 Hamilton St, Cambridge MA 02139-3924 Unit 205: Chris, 617-372-0905	617-868-0489 617-460-2716	Thursday, 7/12/18 1:00PM	7/12/2018 Y Unit 207: Monday, 6/18/18 10:00 AM	Y	202 Hamilton St Cambridge MA	Y	
34 Hamilton St	205/207	1	1 lateral on Hamilton St	Residential	Unit 205: Chris, 617-372-0905 Unit 207: Updike, David and Wambui Githiora			Unit 207: Monday, 6/18/18 10:00 AM Unit 205: Monday 6/18/18 12:30 PM	Y			
34 Hamilton St 35 Hamilton St	205/207 199/201			Residential	Unit 1,3: Fatima Cabral, 617-864-0905		Thrusday, 7/12/18 1:30PM	7/12/2018 Y	Ý			
					Unit 1: Nason, Steven C. Unit 2: Clariza, Todd T. & Oksana L. Berezovska							
					Rollins Court Unit 3: Natalia: 617-286-2777			Lopez St Unit 29: Tueaday 4/3/18 8:30 AM		Cattonar, Maren M.		
		1	1 lateral on Lopez St		Unit 4: Cattonar, Maren M.		Lopez St			4 Rollins Ct Unit 4		27/29 Lopez St and 3/4/5/6 Rollins Ct
					4 Rollins Ct Unit 4 Cambridge, MA02139		Unit 29: Tueaday 4/3/18 8:30 AM Unit 27: Wednesday 6/13/18 7:30 AM	Rollins Ct 1 Unit 3: Tuesday 3/3/18		Cambridge, MA02139 Vega, Cecilia		are all in the same building. Due to resdient at 4 Rollins Ct refusing
36 Lopez St_Rollins Ct	27/29_3/5/6			Multi-Residential	Cambridge, MA02139 Unit 5: Joe Lin, joe-lin@comcast.net Unit 6: Vega, Cecilia	Steve Nason: 617-877-4564 Todd Clarizia: toddclarizia@gmail.com	Rollins Ct Unit 5: Thursday #/12/19 12:00014	Unit 27: Wednesday 6/13/18 7:30 AM Rollins Ct Unit 3: Tuesday 3/3/18 Unit 5: Thursday 4/12/18 11:00 AM Unit 6: Wednesday 6/13/18 1:00 PM	Y	Vega, Cecilia 6 Rollins Ct Cambridge, MA 02139		resdient at 4 Rollins Ct refusing inspection, sampling was done to complete building inspection.
30 tupez at_nomis et	21/22_3/3/0			word measurement		too contractorura eginantorii	Jan. J. Hiursuay 4/12/10 12:00PM	One of wednesday of 19/10 1:00 PM				complete building inspection.
					Rolls Management Inc. 1125 Commonwealth Ave					Rolls Management Inc. 1125 Commonwealth Ave		
37 Magazine St	73	,	1 lateral on Magazine St	Apartment Building	Aliston MA 02134 617-787-1188	Bill, 617-921-2523	Thrusday, 7/12/18 9:00AM	7/12/2018 Y	Y	Allston MA 02134 617-787-1188	Y	
J/ Muguzine Je	,,,	•	Traceruron wagazine se	spartment suituring	Rolls Management Inc.	Dill, OLF SELECT	midday, 7/11/10 3.304m	7/11/10101		Rolls Management Inc.		
					1125 Commonwealth Ave Aliston MA 02134					1125 Commonwealth Ave Allston MA 02134		
38 Magazine St	57/59	2	2 laterals on Magazine St	Anartment Ruilding	Aliston MA 02134 617-787-1188	Rill 617-921-2523	Thursday 7/12/18 9:00AM	7/12/2018 N	Y	Aliston MA 02134 617-787-1188		
39 Magazine St	60	1	1 lateral on Magazine St	Single family home	Nahil Sater		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Wednesday, 5/16/18 10:30 AM Y	Y			
					617-864-3278 Ext 234							
40 Mass Ave	472	1		Commercial	nabil@mideastclub.com CENTRAL PROPERTY LIMITED PARTNERSHIP			Thrusday, 7/19/18 10:30 AM Y	Y			
					C/O RIVERSIDE MANAGEMENT P.O. BOX #440317							
41 Mass Ave	492	1	1 lateral on Brookline St	Commercial	WEST SOMERVILLE, MA 02144			8/31/2018 Y	Y			
42 Mass Ave	534			School/Dance Studio	Gindy Singh			10/15/2018 Y	Y			548 and 550 Mass Ave ave shared
43 Mass Ave	5.49			Restaurant	781-704-1654 gsingh3939@gmail.com			12/19/2018 Y	v			basement with two separate sewer services to Mass Ave.
44 Mass Ave 45 Mass Ave	550		1 lateral on Mass Ave, 1 lateral on Pearl St	Commercial	8			10/15/2018 Y 10/15/2018 Y	Ý			
46 Mass Ave	564 576	7	6 laterals on Pearl St, 1 lateral on Green St	Commercial Commercial				10/15/2018 Y 10/15/2018 Y	Y			
												Building has (2) sewer services; (1) to Mass Ave and (1) to Green St. On
												10/15/18 confirmed sewer service to Mass Ave sewer. On 11/2/2018 could
					Tom Cifrino (Supreme Liquors)			10/15/2018				not confirm sewer service to Green St
47 Mass Ave 48 Mass Ave	600 620		1 lateral to Green St	Commercial Commercial	617-825-8481			11/2/2018 N 10/16/2018 Y	Y			due to back up in service.
48 Mass Ave 49 Mass Ave	632 684	3	2 laterals on Mass Ave, 1 lateral on Green St 1 lateral on Mass Ave	Residential/Commercial Restaurant/Residential				10/16/2018 Y 10/16/2018 Y	Y			
50 Mass Ave 51 Mass Ave	694	3	1 lateral on Mass Ave					10/16/2018 Y	Y			
52 Mass Ave 53 Mass Ave	736 738	1	1 lateral on Mass Ave 1 lateral on Mass Ave	Restaurant Restaurant				10/16/2018 Y 10/16/2018 Y	Y Y			
54 Massachusetts Ave	750	1	1 lateral on Mass Ave	Commercial	MIT Office of the Treasurer			Wednesday, 4/4/18 N	Y			
SS Memorial Drive	262		2 laterals on Amherst Ally	University	238 Main St - Suite 200 Cambridge, MA 02143			Tuesday 8/7/2018 12:00 PM Y	<b>v</b>			
33 Imeliior/al Drive	302	2	E INCCINIS OII MIIIIIEISCAUY	Omerally	Larry Stable			10C30dy 0/1/2010 12:00 PM Y				
56 Memorial Drive	372	1	1 lateral on Amherst Ally	University	617-599-7888 I.stabile@comcast.net			Wednesday 9/19/2018 8:30AM Y	y			
57 Memorial Drive	400/403	1	1 lateral on Amherst Ally	University	MIT Office of the Treasurer			Tuesday 8/7/2018 1:00 PM Y	Y			
50 Manager Drive	407		1 lateral on Ambarat Alba	University	239 Main St., Suite 200			Wednesday 9/15/2015 10 00 11				
58 Memorial Drive	407		1 lateral on Amherst Ally	University	Cambridge, MA 02147 MIT Office of the Treasurer			Wednesday 8/15/2018 10:00 AM Y	Y			
59 Memorial Drive	410	1	4 lateral on Amberst Ally	University	238 Main St - Suite 200 Cambridge, MA 02148			Wednesday 8/15/2018 10:30 AM Y	Y			
					MIT Office of the Treasurer 238 Main St - Suite 200							
60 Pacific	70	1	1 lateral on Pacific St	Dorm	Cambridge, MA 02142 Nick Fatta			Monday 8/6/2018 9:00 AM Y	Y			
					JLL							
					238 Main St, Suite 501 Cambridge MA 02142							
61 Pacific St	117	1	1 lateral on Brookline St	Residential	Cambridge, MA 02142 617-498-0911			Friday, 9/7/2018 Y	Y			
61 Pacific St 62 Pacific St 63 Pearl St	119 107	1	1 lateral on Cottage St	Residential Residential	Colburn, Deborah A.	Debora Colburn, 617-872-2773	Thrusday, 4/12/18 10:30 AM	9/19/2018 Y Thursday, 4/12/18 9:30 AM Y	Y			
										Gani, Mohammad Abdul		I
					Gani, Mohammad Abdul and Tahamina A, Gani					and Tahamina A, Gani 318 Franklin St,		
64 Pearl St	155/157/159	1	1 lateral on Pearl St	Multi-Residential	318 Franklin St, Cambridge, MA 02139 617-999-4573		Monday, 6/18/18 8:00 AM	Monday 6/18/18 8:30 AM Y	y	318 Franklin St, Cambridge, MA 02139	Y	
							214 Unit 1: Tueaday 4/3/18 11:30 AM					
65 000160	244/24-	_				Wilma Nathanson, #214 Unit 1: 617-491-7320	216 Unit 2: Thursday 4/12/18 9:00	214 Unit 1: Tueaday 4/3/18 11:30 AM				
65 Pearl St	214/216	2	2 laterals on Hamilton St 1 lateral on pilgrim st 1 lateral on Brookline St	Multi-Residential	Nathanson, Wilma L.	Jay Pasterello, #216 Unit 2: 603-396-6545	AM	216 Unit 2: Thrusday 4/12/18 9:00 AM Y	Y			
66 Pilgrim St	30		1 lateral on Brookline St 3 laterals on Pacific St	Parking Garage				Friday 8/31/2018, Friday 9/7/2018 Y	Y			
66 Dilarim Ct			S INCOME OF FACIFIC ST	anning owning				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· ·			

						HRI Putnam LLC							
						280 Franklin St, Cambridge, MA 02139							
						C/O Homeowner's Rehab. Inc.	Danny Tompkins		Unit 4: Thursday 4/12/18 1:00 PM				
						280 Franklin St. Cambridge, MA 02139	dtompkins@winnco.com		Unit 5: Thursday 4/12/18 1:15 PM				
67	Sidney St	254	1	1 lateral on Sidney St		617-868-4858		Monday, 6/25/18 9:00 AM	Unit 1.2.3.6: Thrusday 6/28/18 9:00 AM	v	v		
0,	Juney St	2.54	•	2 later at on Staticy St	Wild New Cities	Sidney Grove LLC.	017 004 7334	Worlday, 0/23/20 3:00 Am	Dist 1,2,3,0. Illiaday 0/20/10 3.00 700		·		
						66 Long Wharf, Boston, MA 02110							
						C/O Morris & Morse Company, Inc.							
						33 Union St, Manchester-by-the-Sea, MA 01944							
68	Sidney St	240	3	2 laterals on Allston St and 1 lateral on Putnam Ave	Apartment Building	617-723-6404	Matt, 617-308-2947 (Buidling Manager)	Wednesday, 4/4/18 11:00AM	Wednesday, 4/4/18 10:30M	Y	Y		
								Jeff Chase:					
								617-551-5923					
69	Sidney St	200			Commercial			858-243-2818	Thursday, 7/12/18 2:00 PM	Y	Y		
70	Sidney St	197			Residential				10/12/2018	y	v		
71		179			Commercial				9/21/2018		v		
		201			Commercial				9/12/2018		Ý		
73	Sidney St	45			Commercial				Friday, 8/31/2018	v	v		
		75			Commercial				Friday, 8/31/2018	y Y	Ý		
75		64		2 2 laterals on Sidney St	Commercial				Friday, 8/31/2018	v	v		
		20		1 1 lateral on Sidney St	Commercial				Friday, 8/31/2018	v	v		
/6	Juney J.	30		1 lateral on Sidney St	Commercial				111007, 07 327 2020				
77	Sidney St				Apartment Building				Friday, 8/31/2018				
		91			Technology				Friday, 8/31/2018	T .	7		
		6/8/10"							Friday, 8/31/2018 9/27/2018	Y	Y		
79	valentine St	6/8/10	Unk		Residential	Cho Yiu, MIT Department of Facilities, cyiu@mit.edu			9/27/2018	,	,		
80						Cho Yiu, MTI Department of Facilities, cyiu@mit.edu 617-324-6983		L					
80	Vassar St	219	1	1 lateral on Vassar St	Healthcare Center (MIT)		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Thrusday 4/19/18 7:15AM	Thursday 4/19/18 7:30AM	N .	Y		
						MIT Office of the Treasurer							
						238 Main St - Suite 200							
81	Vassar St	201		2		Cambridge, MA 02142			Tuesday 8/7/2018 9:00 AM	Y	Y		
						MASSACHUSETTS INSTITUTE OF TECHNOLOGY							
						C/O OFFICE OF THE TREASURER							
						238 MAIN ST. SUITE 200							
82	Vassar St	229	UNK		Student Dorm	CAMBRIDGE, MA 02142			Tuesday 8/7/2018 10:00 AM	Y	Y		
							Joe Whalen						
							64 Magee St						*Could not confirm compliant through
				1 lateral on Chalk St			jwhalen@cambridge-housing.org						inspection due to numberous sewer
83	Woodrow Wilson Court	9	3	2 laterals on Magazine St	Apartment Building	617-864-3020	617-499-7114	Wednesday 6/13/18	Wednesday 6/13/18	N*	Y	Y	stacks. Confirmed through sampling.





APPENDIX E

LAB REPORTS



#### ANALYTICAL REPORT

Lab Number: L1815834

Client: Stantec

226 Causway Street

6th Floor

Boston, MA 02114

ATTN: Justin Martinez Phone: (617) 314-7105

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

Project Number: 195130078.400

Report Date: 05/08/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



**Project Name:** ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

**Lab Number:** L1815834 **Report Date:** 05/08/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815834-01	ACCESS 229-2	WATER	Not Specified	05/03/18 09:00	05/03/18
L1815834-02	ACCESS 229-1	WATER	Not Specified	05/03/18 08:45	05/03/18
L1815834-04	12DMH7520	WATER	Not Specified	05/03/18 10:35	05/03/18



**Project Name:** ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1815834 05/08/18

**Project Number:** 195130078.400 **Report Date:** 

#### **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.	



Project Name:ON-CALL CAMBRIDGE 2016 - IDDELab Number:L1815834Project Number:195130078.400Report Date:05/08/18

**Case Narrative (continued)** 

Sample Receipt

The project name, project number and analyses performed were specified by the client.

E. Coli (MF)

L1815834-02: The sample has an elevated detection limit due to the dilution required by the method.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 05/08/18

Michelle M. Morris

# INORGANICS & MISCELLANEOUS



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1815834

**Project Number:** 195130078.400 **Report Date:** 05/08/18

**SAMPLE RESULTS** 

Lab ID:L1815834-01Date Collected:05/03/18 09:00Client ID:ACCESS 229-2Date Received:05/03/18Sample Location:Not SpecifiedField Prep:Not Specified

Sample Depth:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst				
Microbiological Analysis - Westborough Lab													
E. Coli (MF)	130	col/100ml	2.0	NA	2	-	05/03/18 15:40	121,9213D	AJ				



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1815834

**Project Number:** 195130078.400 **Report Date:** 05/08/18

**SAMPLE RESULTS** 

 Lab ID:
 L1815834-02
 Date Collected:
 05/03/18 08:45

 Client ID:
 ACCESS 229-1
 Date Received:
 05/03/18

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst				
Microbiological Analysis - Westborough Lab													
E. Coli (MF)	ND	col/100ml	2.0	NA	2	-	05/03/18 15:40	121,9213D	AJ				



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1815834

**Project Number:** 195130078.400 **Report Date:** 05/08/18

**SAMPLE RESULTS** 

 Lab ID:
 L1815834-04
 Date Collected:
 05/03/18 10:35

 Client ID:
 12DMH7520
 Date Received:
 05/03/18

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result Q	ualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysi	s - Westborough L	_ab							
E. Coli (MF)	98000	col/100ml	100	NA	100	-	05/03/18 15:40	121,9213D	AJ
General Chemistry - W	estborough Lab								
Nitrogen, Ammonia	32.9	mg/l	0.375		5	05/04/18 17:00	05/04/18 23:02	121,4500NH3-BH	AT
Surfactants, MBAS	0.190	mg/l	0.050		1	05/04/18 06:15	05/04/18 06:44	121,5540C	GD



L1815834

Lab Number:

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400 **Report Date:** 05/08/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis	s - Westborough Lab	for sample(s):	: 01-02	,04 Ba	atch: WG1	112415-1			
E. Coli (MF)	ND	col/100ml	1.0	NA	1	-	05/03/18 15:40	121,9213D	AJ
General Chemistry - W	estborough Lab for sa	ample(s): 04	Batch:	WG11	12514-1				
Surfactants, MBAS	ND	mg/l	0.050		1	05/04/18 06:15	05/04/18 06:43	121,5540C	GD
General Chemistry - W	estborough Lab for sa	ample(s): 04	Batch:	WG11	12611-1				
Nitrogen, Ammonia	ND	mg/l	0.075		1	05/04/18 17:00	05/04/18 22:43	121,4500NH3-B	н ат



# Lab Control Sample Analysis Batch Quality Control

**Project Name:** ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

Lab Number:

L1815834

Report Date:

05/08/18

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 04	Batch: WG1112514-2	2				
Surfactants, MBAS	92	-		65-126	-		
General Chemistry - Westborough Lab	Associated sample(s): 04	Batch: WG1112611-2	2				
Nitrogen, Ammonia	96	-		80-120	-		20



# Matrix Spike Analysis Batch Quality Control

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

Lab Number:

L1815834

Report Date:

05/08/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD Qual	RPD Limits
General Chemistry - W	estborough Lab Asso	ciated samp	le(s): 04	QC Batch ID: V	VG1112514-4	QC Sample: L18	15834-04 Client	ID: 12DMH7	7520
Surfactants, MBAS	0.190	0.4	0.600	102	-	-	52-157	-	32
General Chemistry - W	estborough Lab Asso	ciated samp	le(s): 04	QC Batch ID: V	VG1112611-4	QC Sample: L18	15916-01 Client	ID: MS Sam	ple
Nitrogen, Ammonia	16.7	4	20.6	98	-	-	80-120	-	20



Lab Duplicate Analysis
Batch Quality Control

**Project Name:** ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

Lab Number:

L1815834

Report Date:

05/08/18

Parameter	Native	Native Sample		ple Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab As	ssociated sample(s): 0-	4 QC Batch ID:	WG1112514-3	QC Sample: L1	815834-04	Client ID:	12DMH7520
Surfactants, MBAS	0	).190	0.200	mg/l	5		32
General Chemistry - Westborough Lab As	ssociated sample(s): 0-	4 QC Batch ID:	WG1112611-3	QC Sample: L1	815916-01	Client ID:	DUP Sample
Nitrogen, Ammonia		16.7	17.5	mg/l	5		20



Serial\_No:05081812:18 *Lab Number:* L1815834

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400 **Report Date:** 05/08/18

# Sample Receipt and Container Information

Were project specific reporting limits specified?

**Cooler Information** 

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1815834-01A	Bacteria Cup Na2S2O3 preserved	Α	NA		2.4	Υ	Absent		E-COLI-MF(.33)
L1815834-01B	Bacteria Cup Na2S2O3 preserved	Α	NA		2.4	Υ	Absent		E-COLI-MF(.33)
L1815834-02A	Bacteria Cup Na2S2O3 preserved	Α	NA		2.4	Υ	Absent		E-COLI-MF(.33)
L1815834-02B	Bacteria Cup Na2S2O3 preserved	Α	NA		2.4	Υ	Absent		E-COLI-MF(.33)
L1815834-03A	Bacteria Cup Na2S2O3 preserved	Α	NA		2.4	Υ	Absent		-
L1815834-04A	Plastic 950ml unpreserved	Α	7	7	2.4	Υ	Absent		MBAS-5540(2)
L1815834-04B	Plastic 500ml H2SO4 preserved	Α	<2	<2	2.4	Υ	Absent		NH3-4500(28)
L1815834-04C	Bacteria Cup Na2S2O3 preserved	Α	NA		2.4	Υ	Absent		E-COLI-MF(.33)
L1815834-04D	Bacteria Cup Na2S2O3 preserved	Α	NA		2.4	Υ	Absent		E-COLI-MF(.33)



Project Name:ON-CALL CAMBRIDGE 2016 - IDDELab Number:L1815834Project Number:195130078.400Report Date:05/08/18

## **GLOSSARY**

## Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated

values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for

which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

## **Footnotes**

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

## Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

# Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name:ON-CALL CAMBRIDGE 2016 - IDDELab Number:L1815834Project Number:195130078.400Report Date:05/08/18

#### Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
  of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name:ON-CALL CAMBRIDGE 2016 - IDDELab Number:L1815834Project Number:195130078.400Report Date:05/08/18

## REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

# LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 11

Page 1 of 1

Published Date: 1/8/2018 4:15:49 PM

# **Certification Information**

## The following analytes are not included in our Primary NELAP Scope of Accreditation:

## **Westborough Facility**

EPA 624: m/p-xylene, o-xylene

**EPA 8260C:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: <u>DW:</u> Bromide EPA 6860: <u>SCM:</u> Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

# Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

### The following analytes are included in our Massachusetts DEP Scope of Accreditation

#### Westborough Facility:

### **Drinking Water**

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

## Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

**EPA 608**: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

# **Mansfield Facility:**

## Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

## Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form Pre-Qualtrax Document ID: 08-113

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Container Type P= Plastic A= Amber glass V= Vial G= Glass B= Bacteria cup	Preservative A** None B** HCI C** HNO <sub>3</sub> D** H <sub>2</sub> SO <sub>4</sub>					ner Type servative													
C= Cube C= Other E= Encore D= BOD Bottle  Page 18 of 18	E= NaOH F= MeOH G= Na4SO4 H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> I= Ascorbic Acid J = NH <sub>4</sub> Cl K= Zn Acetate O= Other	Relinquished	By:		5/3 1	77 FM 324	Bh	Rege	fived By:	n A	MAC	5/3		Time  2 2 324	S	lpha's Te ee rever	erms and rse side	d Conditions	bject to



# ANALYTICAL REPORT

Lab Number: L1836861

Client: Stantec

226 Causway Street

6th Floor

Boston, MA 02114

ATTN: Justin Martinez
Phone: (617) 314-7105

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

Project Number: 195130078.400

Report Date: 09/25/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



**Project Name:** ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

Lab Number:

L1836861

**Report Date:** 09/25/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836861-01	SYDNEY/ERIE S-8	WATER	CAMBRIDGE, MA	09/17/18 10:24	09/17/18
L1836861-02	S-15 BROOKLINE/DECATUR	WATER	CAMBRIDGE, MA	09/17/18 11:20	09/17/18



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1836861
Project Number: 195130078.400 Report Date: 09/25/18

## **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

## HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.	

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Custen Walker Cristin Walker

Authorized Signature:

Title: Technical Director/Representative

Date: 09/25/18

# INORGANICS & MISCELLANEOUS



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1836861

**Project Number:** 195130078.400 **Report Date:** 09/25/18

**SAMPLE RESULTS** 

Lab ID: L1836861-01 Date Collected: 09/17/18 10:24

Client ID: SYDNEY/ERIE S-8 Date Received: 09/17/18
Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst				
Microbiological Analysis - Westborough Lab													
E. Coli (MF)	770	col/100ml	10	NA	10	-	09/17/18 18:20	121,9213D	AJ				



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1836861

**Project Number:** 195130078.400 **Report Date:** 09/25/18

**SAMPLE RESULTS** 

Lab ID: L1836861-02 Date Collected: 09/17/18 11:20

Client ID: S-15 BROOKLINE/DECATUR Date Received: 09/17/18
Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analy	ysis - Westboroug	h Lab							
E. Coli (MF)	5.0	col/100ml	2.0	NA	2	-	09/17/18 18:20	121,9213D	AJ



L1836861

Lab Number:

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400 **Report Date:** 09/25/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	er Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis	- Westborough Lab	for sample(s):	01-02	Batch:	WG11579	941-1			
E. Coli (MF)	ND	col/100ml	1.0	NA	1	_	09/17/18 18:20	121,9213D	AJ



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400 **Report Date:** 09/25/18

# Sample Receipt and Container Information

Were project specific reporting limits specified?

**Cooler Information** 

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1836861-01A	Bacteria Cup Na2S2O3 preserved	Α	NA		3.6	Υ	Absent		E-COLI-MF(.33)
L1836861-01B	Bacteria Cup Na2S2O3 preserved	Α	NA		3.6	Υ	Absent		E-COLI-MF(.33)
L1836861-02A	Bacteria Cup Na2S2O3 preserved	Α	NA		3.6	Υ	Absent		E-COLI-MF(.33)
L1836861-02B	Bacteria Cup Na2S2O3 preserved	Α	NA		3.6	Υ	Absent		E-COLI-MF(.33)



**Project Name:** Lab Number: ON-CALL CAMBRIDGE 2016 - IDDE L1836861 **Project Number:** 195130078.400 **Report Date:** 09/25/18

## GLOSSARY

## Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

**EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

**EPA** - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for

which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the

precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample is toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

## **Footnotes**

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

## Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: Data Usability Report



Project Name:ON-CALL CAMBRIDGE 2016 - IDDELab Number:L1836861Project Number:195130078.400Report Date:09/25/18

#### Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detectable concentrations of the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
  of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- $\label{eq:MCPCAM} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- **ND** Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name:ON-CALL CAMBRIDGE 2016 - IDDELab Number:L1836861Project Number:195130078.400Report Date:09/25/18

## REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

# **LIMITATION OF LIABILITIES**

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 11

Page 1 of 1

Published Date: 1/8/2018 4:15:49 PM

# **Certification Information**

## The following analytes are not included in our Primary NELAP Scope of Accreditation:

## **Westborough Facility**

EPA 624: m/p-xylene, o-xylene

**EPA 8260C:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: <u>DW:</u> Bromide EPA 6860: <u>SCM:</u> Perchlorate

**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

# Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

### The following analytes are included in our Massachusetts DEP Scope of Accreditation

#### Westborough Facility:

**Drinking Water** 

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

**EPA 332**: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

## Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

**EPA 608**: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

# **Mansfield Facility:**

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

## Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form Pre-Qualtrax Document ID: 08-113

Report Information - Data Deliverables   Billing Information   Billing Information   Billing Information   Project Name: 01 - (211 (216)   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2016   2	11836861
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Address: 22G CAUSCWAY 57 Project Manager: SANdy - KAC Gray  BOS FON. MA  ALPHA Quote #:  Phone: C17 314 7105  Project Manager: SANdy - KAC Gray  Other State / Fed Program  Criteria	T DCD Applytical Mark
BOSTON, MA ALPHA Quote #: 1 Yes \( \text{No NPDES RGP} \) Other State /Fed Program Criteria	Innragnice)
Phone: (11, 2(4, 1)(1)	igota)
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Additional Project Information:  Date Due:  Date Due:	/ / /
ALPHA Lab ID (Lab Use Only)  Sample ID  Collection Date Time Matrix Initials  Date Time Matrix Initials  Sample Sampler Initials  Date Time Matrix Initials	SAMPLE INFO Filtration □ Field □ Lab to do Preservation
ALPHA Lab ID (Lab Use Only)  Sample ID  Collection  Sample Sampler   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample	☐ Lab to do
36861 - 01 Sydney / Erie 5.8 9/17/18 10:24 AM AMH 2	Sample Comments
Ecic / Svd nev Se	
02 5.15 Brookline / Decatur 9/17/18 11:20 AM H 2	
02 5.15 Brookline   Drafter 19/11/18 11:20 AMH 2	
Container Type Preservative P= Plastic A= None Container Type P= Plastic A= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= None P= No	
A- Amoer glass B= HCl V= Vial C= HNO, G= Glass C= HSO, Preservative Δ	
B= Bacteria cup E= NaOH C= Cube F= MeOH Relinquished By: Date/Time	
	submitted are subject to



# ANALYTICAL REPORT

Lab Number: L1836906

Client: Stantec

226 Causway Street

6th Floor

Boston, MA 02114

ATTN: Justin Martinez
Phone: (617) 314-7105

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

Project Number: 195130078.400

Report Date: 09/25/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



**Project Name:** ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

Lab Number:

L1836906

**Report Date:** 09/25/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836906-01	PLEASANT/MASS AVE	WATER	CAMBRIDGE, MA	09/17/18 13:10	09/17/18
L1836906-02	PEARL/MASS AVE	WATER	CAMBRIDGE, MA	09/17/18 13:45	09/17/18



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1836906

Project Number: 195130078.400 Report Date: 09/25/18

## **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

## HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Custen Walker Cristin Walker

Authorized Signature:

Title: Technical Director/Representative

Please contact Client Services at 800-624-9220 with any questions.

ALPHA

Date: 09/25/18

# INORGANICS & MISCELLANEOUS



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1836906

**Project Number:** 195130078.400 **Report Date:** 09/25/18

**SAMPLE RESULTS** 

Lab ID: L1836906-01 Date Collected: 09/17/18 13:10

Client ID: PLEASANT/MASS AVE Date Received: 09/17/18
Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result Q	ualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysi	s - Westborough L	_ab							
E. Coli (MF)	60	col/100ml	2.0	NA	2	-	09/17/18 18:20	121,9213D	AJ
General Chemistry - W	estborough Lab								
Nitrogen, Ammonia	5.66	mg/l	0.075		1	09/18/18 16:00	09/18/18 20:46	121,4500NH3-BH	AT
Surfactants, MBAS	ND	mg/l	0.050		1	09/18/18 06:00	09/18/18 08:43	121,5540C	GD



Project Name: ON-CALL CAMBRIDGE 2016 - IDDE Lab Number: L1836906

**Project Number:** 195130078.400 **Report Date:** 09/25/18

**SAMPLE RESULTS** 

Lab ID: L1836906-02 Date Collected: 09/17/18 13:45

Client ID: PEARL/MASS AVE Date Received: 09/17/18
Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Ana	llysis - Westboroug	h Lab							
E. Coli (MF)	2.0	col/100ml	2.0	NA	2	-	09/17/18 18:20	121,9213D	AJ



L1836906

Lab Number:

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400 **Report Date:** 09/25/18

# Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis -	· Westborough Lab fo	sample(s):	01-02	Batch:	WG1157	941-1			
E. Coli (MF)	ND	col/100ml	1.0	NA	1	-	09/17/18 18:20	121,9213D	AJ
General Chemistry - Wes	tborough Lab for sam	ple(s): 01	Batch:	WG115	57990-1				
Surfactants, MBAS	ND	mg/l	0.050		1	09/18/18 06:00	09/18/18 08:33	121,5540C	GD
General Chemistry - Wes	tborough Lab for sam	ple(s): 01	Batch:	WG115	58036-1				
Nitrogen, Ammonia	ND	mg/l	0.075		1	09/18/18 16:00	09/18/18 20:27	121,4500NH3-B	SH AT



# Lab Control Sample Analysis Batch Quality Control

**Project Name:** ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

Lab Number:

L1836906

Report Date:

09/25/18

Parameter	LCS %Recovery Qu	LCSD al %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab As	ssociated sample(s): 01	Batch: WG1157990	-2				
Surfactants, MBAS	100	-		65-126	-		
General Chemistry - Westborough Lab As	ssociated sample(s): 01	Batch: WG1158036	-2				
Nitrogen, Ammonia	98	-		80-120	-		20



# Matrix Spike Analysis Batch Quality Control

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

Lab Number:

L1836906

**Report Date:** 09/25/18

<u>Parameter</u>	Native Sample		MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
General Chemistry	- Westborough Lab A	ssociated sar	mple(s): 01	QC Batch ID: \	WG1157	990-4	QC Sample: L18	300009-9	00 Client	ID: MS	Samp	le
Surfactants, MBAS	ND	0.4	0.320	80		-	-		52-157	-		32
General Chemistry	- Westborough Lab A	ssociated sar	mple(s): 01	QC Batch ID: \	WG1158	036-4	QC Sample: L18	36820-0	01 Client	ID: MS	Samp	le
Nitrogen, Ammonia	0.112	2 4	3.94	96		-	-		80-120	-		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400

Lab Number:

L1836906

Report Date:

09/25/18

Parameter	Native Sample	Duplicate Sam	ple Units	RPD (	Qual RPD Limits
General Chemistry - Westborough Lab Associated	sample(s): 01 QC Batch ID:	WG1157990-3	QC Sample: L180	0009-90 Client	ID: DUP Sample
Surfactants, MBAS	ND	ND	mg/l	NC	32
General Chemistry - Westborough Lab Associated	sample(s): 01 QC Batch ID:	WG1158036-3	QC Sample: L183	6820-01 Client	t ID: DUP Sample
Nitrogen, Ammonia	0.112	0.120	mg/l	7	20



Serial\_No:09251821:22 *Lab Number:* L1836906

Project Name: ON-CALL CAMBRIDGE 2016 - IDDE

**Project Number:** 195130078.400 **Report Date:** 09/25/18

# Sample Receipt and Container Information

Were project specific reporting limits specified?

**Cooler Information** 

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1836906-01A	Bacteria Cup Na2S2O3 preserved	Α	NA		2.3	Υ	Absent		E-COLI-MF(.33)
L1836906-01B	Bacteria Cup Na2S2O3 preserved	Α	NA		2.3	Υ	Absent		E-COLI-MF(.33)
L1836906-01C	Plastic 500ml H2SO4 preserved	Α	<2	<2	2.3	Υ	Absent		NH3-4500(28)
L1836906-01D	Plastic 950ml unpreserved	Α	7	7	2.3	Υ	Absent		MBAS-5540(2)
L1836906-02A	Bacteria Cup Na2S2O3 preserved	Α	NA		2.3	Υ	Absent		E-COLI-MF(.33)
L1836906-02B	Bacteria Cup Na2S2O3 preserved	Α	NA		2.3	Υ	Absent		E-COLI-MF(.33)



**Project Name:** Lab Number: ON-CALL CAMBRIDGE 2016 - IDDE L1836906 **Project Number:** 195130078.400 **Report Date:** 09/25/18

# GLOSSARY

#### Acronyms

**EPA** 

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

**EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an

analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

- Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for

which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

**RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the

precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample is toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

#### **Footnotes**

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: Data Usability Report



Project Name:ON-CALL CAMBRIDGE 2016 - IDDELab Number:L1836906Project Number:195130078.400Report Date:09/25/18

#### Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
  of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G -The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- $\label{eq:MCPCAM} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Serial\_No:09251821:22

Project Name:ON-CALL CAMBRIDGE 2016 - IDDELab Number:L1836906Project Number:195130078.400Report Date:09/25/18

## REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

# LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Serial\_No:09251821:22

Alpha Analytical, Inc.
Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 11

Page 1 of 1

Published Date: 1/8/2018 4:15:49 PM

# **Certification Information**

### The following analytes are not included in our Primary NELAP Scope of Accreditation:

## Westborough Facility

EPA 624: m/p-xylene, o-xylene

**EPA 8260C:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: <u>DW:</u> Bromide EPA 6860: <u>SCM:</u> Perchlorate

**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

# Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

#### The following analytes are included in our Massachusetts DEP Scope of Accreditation

#### Westborough Facility:

#### **Drinking Water**

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

#### Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

**EPA 608**: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

# **Mansfield Facility:**

# Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

# Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

**EPA 245.1** Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form Pre-Qualtrax Document ID: 08-113

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# ANALYTICAL REPORT

Lab Number: L2001219

Client: Stantec

585 Massachusetts Ave. Cambridge, MA 02139

ATTN: Michael Sullivan

Phone: () -

Project Name: CAMB ONCALL

Project Number: 195130078

Report Date: 01/17/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CAMB ONCALL

Project Number: 195130078

Lab Number:

L2001219

**Receive Date** 

**Report Date:** 01/17/20

Alpha Sample ID Client ID Matrix Sample Location Date/Time

L2001219-01 D12DMH0805 WATER CAMBRIDGE, MA 01/10/20 10:15 01/10/20



Project Name:CAMB ONCALLLab Number:L2001219Project Number:195130078Report Date:01/17/20

# **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.	



Serial\_No:01172012:06

Project Name:

**CAMB ONCALL** 

Lab Number:

L2001219

**Project Number:** 

195130078

Report Date:

01/17/20

# **Case Narrative (continued)**

Report Submission

L2001219-01: Due to QC failure, the E-Coli results are not valid and cannot be reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Cattlin Wallet Caitlin Walukevich

Authorized Signature:

Title: Technical Director/Representative

Date: 01/17/20



# INORGANICS & MISCELLANEOUS



Serial\_No:01172012:06

Project Name: CAMB ONCALL Lab Number: L2001219

**SAMPLE RESULTS** 

Lab ID: L2001219-01 Date Collected: 01/10/20 10:15

Client ID: D12DMH0805 Date Received: 01/10/20 Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	Vestborough Lab	)								
Surfactants, MBAS	ND		mg/l	0.050		1	01/11/20 05:30	01/11/20 10:33	121,5540C	JA



Serial\_No:01172012:06

Project Name: CAMB ONCALL

Project Number: 195130078

Lab Number:

L2001219

**Report Date:** 01/17/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab for sa	ample(s): 01	Batch	: WG13	329081-1				
Surfactants, MBAS	ND	mg/l	0.050		1	01/11/20 05:30	01/11/20 10:30	121,5540C	JA



# Lab Control Sample Analysis Batch Quality Control

Lab Number: L2001219

**Project Number:** 195130078 Report Date:

01/17/20

Parameter	LCS %Recovery Qu	LCSD al %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01	Batch: WG1329081-	2				
Surfactants, MBAS	104	-		65-126	-		



**Project Name:** 

CAMB ONCALL

# Matrix Spike Analysis Batch Quality Control

**Project Name: CAMB ONCALL Project Number:** 

195130078

Lab Number:

L2001219

Report Date:

01/17/20

<u>Parameter</u>	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery Qua	Recovery I Limits	RPD Q	RPD ual Limits
General Chemistry - Westborou	ugh Lab Asso	ciated samp	le(s): 01	QC Batch ID: V	VG1329081-4	QC Sample: L200118	6-01 Client	ID: MS S	ample
Surfactants, MBAS	0.050	0.4	0.480	108	-	-	52-157	-	32



Lab Duplicate Analysis

Batch Quality Control

Lab Number:

L2001219

Report Date:

01/17/20

Parameter	Native Sample	<b>Duplicate Sam</b>	ple Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated samp	ole(s): 01 QC Batch ID:	WG1329081-3	QC Sample: L2001	186-01 (	Client ID: D	UP Sample
Surfactants, MBAS	0.050	0.070	mg/l	33	Q	32



**Project Name:** 

Project Number: 195130078

CAMB ONCALL

Serial\_No:01172012:06

**Lab Number:** L2001219

Report Date: 01/17/20

# Sample Receipt and Container Information

Were project specific reporting limits specified?

CAMB ONCALL

**Cooler Information** 

Project Name:

Cooler Custody Seal

A Absent

**Project Number:** 195130078

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2001219-01A	Bacteria Cup Na2S2O3 preserved	Α	NA		3.9	Υ	Absent		-
L2001219-01B	Bacteria Cup Na2S2O3 preserved	Α	NA		3.9	Υ	Absent		-
L2001219-01C	Plastic 950ml unpreserved	Α	7	7	3.9	Υ	Absent		MBAS-5540(2)
L2001219-01D	Plastic 60ml unpreserved	Α	7	7	3.9	Υ	Absent		MBAS-5540(2)



**Project Name:** Lab Number: **CAMB ONCALL** L2001219 **Project Number:** 195130078 **Report Date:** 01/17/20

### GLOSSARY

#### Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

**EDL** - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

**EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

**EPA** Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated

using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

# **Footnotes**

Report Format: Data Usability Report



Project Name:CAMB ONCALLLab Number:L2001219Project Number:195130078Report Date:01/17/20

 The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### **Terms**

1

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
  of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- $\label{eq:main_main_section} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- **ND** Not detected at the reporting limit (RL) for the sample.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- ${f P}$  The RPD between the results for the two columns exceeds the method-specified criteria.
- Q -The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report



Serial\_No:01172012:06

Project Name:CAMB ONCALLLab Number:L2001219Project Number:195130078Report Date:01/17/20

## **Data Qualifiers**

than 5x the RL. (Metals only.)

 $\boldsymbol{R}$  — Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Serial\_No:01172012:06

Project Name:CAMB ONCALLLab Number:L2001219Project Number:195130078Report Date:01/17/20

### REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

# **LIMITATION OF LIABILITIES**

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Serial\_No:01172012:06

ID No.:17873 Revision 15

Page 1 of 1

Published Date: 8/15/2019 9:53:42 AM

# Certification Information

#### The following analytes are not included in our Primary NELAP Scope of Accreditation:

#### Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

# **Mansfield Facility**

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

#### The following analytes are included in our Massachusetts DEP Scope of Accreditation

#### Westborough Facility:

## **Drinking Water**

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

# Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kieldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

# **Mansfield Facility:**

#### Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

# Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form

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# ANALYTICAL REPORT

Lab Number: L2004381

Client: Stantec

585 Massachusetts Ave. Cambridge, MA 02139

CAMB ON CALL

ATTN: Michael Sullivan
Phone: (774) 364-1188

Project Number: 195130078

Report Date: 02/05/20

Project Name:

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CAMB ON CALL

Project Number: 195130078

**Lab Number:** L2004381 **Report Date:** 02/05/20

Alpha Sample ID Client ID Matrix Sample Location Date/Time Receive Date

L2004381-01 D10DMH7525 WATER CAMBRIDGE 01/30/20 14:45 01/30/20



Serial No:02052020:14

Project Name:CAMB ON CALLLab Number:L2004381Project Number:195130078Report Date:02/05/20

# **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

ricase contact i reject management at 600 024 0220 with any questions.										

Please contact Project Management at 800-624-9220 with any questions

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 02/05/20

Jufani Morrissey-Tiffani Morrissey

ANALYTICA

# INORGANICS & MISCELLANEOUS



Serial\_No:02052020:14

Project Name: CAMB ON CALL

Project Number: 195130078

Lab Number:

L2004381

**Report Date:** 02/05/20

**SAMPLE RESULTS** 

Lab ID: L2004381-01

Client ID: D10DMH7525 Sample Location: CAMBRIDGE Date Collected:

01/30/20 14:45

Date Received:

01/30/20

Field Prep:

Not Specified

Sample Depth:

Matrix: Water

Parameter	Result C	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst		
Microbiological Analysis - Westborough Lab											
E. Coli (MF)	40	col/100ml	2.0	NA	2	-	01/30/20 20:52	121,9213D	СО		
General Chemistry - We	estborough Lab										
Surfactants, MBAS	0.050	mg/l	0.050		1	02/01/20 08:00	02/01/20 09:38	121,5540C	JA		



Serial\_No:02052020:14

L2004381

**Project Name:** CAMB ON CALL

Project Number: 195130078 **Report Date:** 02/05/20

Lab Number:

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis	- Westborough Lab for	or sample(s):	01	Batch: \	NG1335641-	1			
E. Coli (MF)	ND	col/100ml	1.0	NA	1	-	01/30/20 20:52	121,9213D	СО
General Chemistry - We	stborough Lab for sar	mple(s): 01	Bato	h: WG13	336105-1				
Surfactants, MBAS	ND	mg/l	0.050	)	1	02/01/20 08:00	02/01/20 09:35	121,5540C	JA



# Lab Control Sample Analysis Batch Quality Control

Lab Number: L2004381

**Project Number:** 195130078 Report Date: 02/05/20

Parameter	LCS %Recovery Qu	LCSD al %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01	Batch: WG1336105-	2				
Surfactants, MBAS	96	-		65-126	-		



**Project Name:** 

CAMB ON CALL

# Matrix Spike Analysis Batch Quality Control

Project Name: CAMB ON CALL

Lab Number:

L2004381 02/05/20

Project Number:

195130078

Report Date:

<u>Parameter</u>	Native Sample	MS Added	MS Found	MS %Recovery		MSD ound	MSD %Recovery C		Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westbor	QC Batch ID: V	NG133610	)5-4	QC Sample: L2004	4381-0	1 Client	ID: D1	ODMH.	7525			
Surfactants, MBAS	0.050	0.4	0.480	108		-	-		52-157	-		32



Lab Duplicate Analysis

Batch Quality Control

Lab Number:

L2004381

Report Date:

02/05/20

Parameter	Native Sample	Duplicate Sample Units		RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01 QC Batch ID:	WG1336105-3	QC Sample: L200	04381-01	Client ID:	D10DMH7525
Surfactants, MBAS	0.050	ND	mg/l	NC		32



**Project Name:** 

**Project Number:** 195130078

CAMB ON CALL

Serial\_No:02052020:14

Lab Number: L2004381

Report Date: 02/05/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

CAMB ON CALL

**Cooler Information** 

Project Name:

Cooler Custody Seal

A Absent

**Project Number:** 195130078

Container Info	Container Information Container ID Container Type Coole		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2004381-01A	Bacteria Cup Na2S2O3 preserved	А	NA		2.8	Υ	Absent		E-COLI-MF(.33)
L2004381-01B	Bacteria Cup Na2S2O3 preserved	Α	NA		2.8	Υ	Absent		E-COLI-MF(.33)
L2004381-01C	Plastic 950ml unpreserved	Α	7	7	2.8	Υ	Absent		MBAS-5540(2)



**Project Name:** Lab Number: CAMB ON CALL L2004381 **Project Number:** 195130078 **Report Date:** 02/05/20

### GLOSSARY

#### Acronyms

**EDL** 

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

**EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration. **EPA** Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated

using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

# **Footnotes**

RPD

Report Format: Data Usability Report



Project Name:CAMB ON CALLLab Number:L2004381Project Number:195130078Report Date:02/05/20

 The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### **Terms**

1

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
  of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- **ND** Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- ${f P}$  The RPD between the results for the two columns exceeds the method-specified criteria.
- Q -The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report



Serial\_No:02052020:14

Project Name:CAMB ON CALLLab Number:L2004381Project Number:195130078Report Date:02/05/20

#### Data Qualifiers

than 5x the RL. (Metals only.)

 $\boldsymbol{R}$  — Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Serial\_No:02052020:14

Project Name:CAMB ON CALLLab Number:L2004381Project Number:195130078Report Date:02/05/20

#### REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Serial\_No:02052020:14

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 15

Published Date: 8/15/2019 9:53:42 AM

Page 1 of 1

### Certification Information

#### The following analytes are not included in our Primary NELAP Scope of Accreditation:

#### Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

## **Mansfield Facility**

**SM 2540D:** TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

#### The following analytes are included in our Massachusetts DEP Scope of Accreditation

#### Westborough Facility:

#### **Drinking Water**

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

#### Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kieldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

## **Mansfield Facility:**

#### Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

#### Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Pre-Qualtrax Document ID: 08-113 Document Type: Form

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ALPHA Lab ID (Lab Use Only)	Sample ID		Colle	ction Time	Sample Matrix	Sampler	Voc.	SVOC.	METALS	EPH. C.	HH. D.	D PCB		MRA	//	/ /	/		Lab to do	BOTTLES
67381-1	DIODMH7525		30 2020	2:459	4	MAS							\rightarrow \tag{\tau}	<b>~</b>				*		
Container Type P= Plastic A= Amber glass V= Vial G= Glass B= Bacteria cup C= Cube O= Other E= Encore D= BOD Bottle	Preservative  A= None  B= HCI  C= HNO <sub>3</sub> D= H <sub>2</sub> SO <sub>4</sub> E= NaOH  F= MeOH  F= MeOH  H= Na <sub>2</sub> S <sub>2</sub> O <sub>2</sub> I= Ascorbic Àcid  J= NH <sub>1</sub> CI  K= Zn Acetate  O= Other	Relinquis	hed By:		Date	iner Type servative /Time /2020 3:	o= pu	tal	Receive A.	red By	Ac	m	1	Date/130 20	150		na's Ter	rms and	tted are subject Conditions.	t to





# APPENDIX F SAMPLING RESULTS TABLE

# Cambridgeport Illicit Connection Survey Results 4/18/2018

Legend		
	Compliant	
	Non-compliant	
	Not Sampled	

1						Testing Reach												Lab Results			
Catchment Area	GIS MAP ID	Street	Area	Upstream Manhole	Downstream & Test Manhole	Drain Laterals Caught by Sample	Possible Illicit Buildings	Sandbag Locations	Description of Sandbag Placments	Start Date	End Date	E.coli Samples Collected (Y/N)	Field Test Ammonia (Non-Compliant > 0.5 mg/L)	Field Test Surfactants (Non-Compliant > 0.25 mg/L)	Ammonia & Surfactants Sample Collected (Y/N)	Report No.	E.coli (cfu/100mL) (Non-Compliant >235 cfu/100mL)	Ammonia (mg/L) (Non-Compliant>0.5mg/L)	Surfactants (mg/L) (Non-Compliant >0.1 mg/L)	Test Result (Compliant, Non-compliant, MH dry)	Comments
	\$1	Fairmont St	Pleasant St to Magazine St	D12DMH7715	D12DMH7525	7	3	D12DMH7525	Place in upstream pipe at D12DMH7525 to isolate Fairmont St	5/1/2018	5/3/2018	N	N/A	N/A	N	N/A	N/A	N/A	N/A	MH dry	
	\$2	Magazine St	Fairmont St to Upton St	D12DMH7544	D12DMH7520	9	3	D12DMH7520 D12DMH7537 D12DMH7544	Place in upstream pipe at D12DMH7520 to isolate Magazine St, place in branching pipe at D12DMH7537 to prevent flow from Kelly Road, and in upstream pipe at D12DMH7544 to isolate Magazine St and capture flow from Upton St.	5/1/2018	5/3/2018	Y			Y	L1815834	98000	32.9	0.19	Non-Compliant	Included Magazine St from Fairmont St to Upton St, including Upton St, but not including Kelly Rd.
	53	Magazine St	Upton St to Cottage St	D22DMH7550	D12DMH7544	6	3	D12DMH7544 D12DMH7550	Place in upstream pipe at D12DMH7544 and downstream pipe at D12DMH7550 to isolate Magazine St and capture flow from Cottage St.	5/1/2018	5/3/2018	N	N/A	N/A	N	N/A	N/A	N/A	N/A	MH dry	Included Magazine St from Upton St to Cottage St, including Cottage St. Orignally planned on placing sandbag in D12DMH7563, however could not get MH open, so sandbag relocated to D12DMH7550.
	S4	Magazine St	William to Auburn St	D12DMH1750	D12DMH7550	5	4	D12DMH7550	Place in upstream pipe at D12DMH7550 to capture flow from two drain lines on Magazine St flow from Auburn S, and flow from William Stt.	5/1/2018	E/2/2019	N	N/A	N/A	N	N/A	N/A	N/A	N/A	MH Dry	Included Magazine St from Cottage St to Aubum St, including flow from Aubum St and William St.
	\$5	Pearl St	Putnam St to Erie St	D12DMH7325	ACCESS352	5	3	ACCESS352 D12DMH7310	Place in upstream pipe at ACCESS352 to isolate Pearl St, and place at D12DMH7310 to prevent flow from Hamilton St. Allow flow from Allston St and Putnam Ave onto Pearl St.		5/3/2018		N/A	N/A	N	N/A	N/A	N/A	N/A	MH dry	Included frlow from Pearl St from Erie St to Putnam St, including flow from Allston St from Magazine St to Brookline St, and flow from Putnam Ave from Magazine St to Brookline St.
D12	\$6	Fria St	Pearl St to Brookline St	D12DMH6610	D12DMH6030	6	3	ACCESS352 D12DMH6030 D12DMH6610	Place in upstream pipe at D12DMH6030 to isolate Erie St, upstream pipe in ACCESS352 to prevent frlow from southern Pearl St and western Erie St, and in downstream pipe at DMH6610 to isloate Pearl St.												Could not sample due to sanding water. Buildings inspected instead
	S7	Brookline St	Allston St to Erie St	D12DMH6028	D12DMH6030	21	8	D12DMH6030	Place in upstream pipe at D12DMH6030 to isolate Brookline St	5/1/2018	5/3/2018	N	N/A	N/A	N	N/A	N/A	N/A	N/A	MH dry	Included flow on Brookline St from Erie St to Allston St.
	S8	Sidney St	Erie St to Emily St	D12DMH6250	D12DMH0400	6	2	D12DMH0400 D12DMH0425	Place in upstream pipe at D12DMH0400 to isolate Sidney St upstream and at D12DMH0425 to isolate Sidney St downstream and allow flow from Emily St.	9/15/2018	3/3/2016	Y	0.00	0.25	N	L1836861-01	770	N/A	N/A	Compliant	E. coll levels believed to be residual from standing water in MH; not high enough levels to indicate an illicit connection.
	\$9	Erie St	Brookline St to Sidney St	D12DMH6030	D12DMH0205	5	2	D12DMH6030 D12DMH0205	Place in downstream pipe at D12DMH6030 and upstream pipe at D12DMH0205 to isolate Erie St												Could not sample due to sanding water. Buildings inspected instead
	S10	Waverly St	Allston St	D12DMH1210	D12DMH0805	5	1	D12DMH0805	Place in upstream at D12DMH0805 to isolate flow from Allston St and building 130 Waverly St												Could not sample due to sanding water. Buildings inspected instead
	S11	Grove Ave	Allston St to Putnam Ave		ACCESS220			ACCESS229	Place in upstream pipe to isolate flow from Grove Ave	5/1/2018	5/3/2018	V	N/A	N/A		L1815834	ND 130	N/A	N/A	Compliant	Took two e.coli samples in MH ACCESS229 from two active lines. Both samples were compliant.
	-			D12DMH0810	D12DMH0750	-	-	D12DMH0805	Placed in Manhole outlet invert				N/A	N/A	N .	N/A	N/A	N/A	N/A	Compliant	Post correction Inspection
	-	Waverley St		D12DMH7535	D12DMH7515	-	+	D12DMH7525	Placed in Manhole outlet invert	1/28/2020			<u>'</u>	,	N		10	N/A	0.5	MH dry	
	-	Magazine St		D12DMH7530	D12DMH7510	-	-	D12DMH7520	Placed in Manhole channel invert	1/28/2020		¥	N/A	N/A	Y	L2004381	40	.,,.	N/A	Compliant	Post correction inspection
	S12	Magazine St	Erie St to Allston St	D12DMH6505	D12DMH0205	7	1	D12DMH0205	Placed in Mannole channel invert  Place in pipe coming from Sidney St south of D12DMH0205	2/3/2020	2/5/2020	N	N/A	N/A	N	N/A	N/A	N/A		MH dry	Could not sample due to sanding water. Buildings inspected instead
	\$13	Brookline St	Valentine St to Erie St	D10DMH2040	D10DMH2030	5	5	D10DMH2030	Place in pipe coming from Valentine St to prevent flow and comgin from Brookline St south of D10DMH2030 to collect sample.	9/15/2018		N	N/A	N/A	N					MH Dry	inspecticu insteau
	S14	Valentine St	Brookline St to Pearl St	D12DMH6620	D10DMH2030	11	7	D10DMH2030	Place in pipe coming from Valentine St to collect sample.	9/15/2018		N	N/A	N/A	N					MH Dry	
	\$15	Rrookline St	Valentine St to Decatur St	D10DMH2030	D10DMH2020	8	4	D10DMH2020 D10DMH2030	Place in downstream pipe at D10DMH2030 to prevent flow and downstream pipe at D10DMH2020 to collect sample	9/15/2018		ν.	0	0.25	N	L1836861-01	5	N/A	N/A	Compliant	
	S16	Tudor St	Brookline St to Sidney St	D10DMH1162	D10DMH0720	8	2	D10DMH0720	Place on invert at D10DMH0720 to collect sample.	9/15/2018		N	N/A	N/A	N					MH Dry	
D10	S17	Pearl St	Franklin St to Mass Ave	D10DMH3215	D10DMH3215	10	3	D10DMH3215	Place in upstream pipe at D10DMH3215 from Pearl St to collect sample.	9/15/2018		Y	0	0.25	N	L1836906-01	2	N/A	N/A	Compliant	
	S18	Mass Ave	Brookline St to Western Ave	D10DMH3225	D10DMH2650	4	3	D10DMH2650	Place in upstream pipe at D10DMH2650 and downstream pipe at D10DMH3225.												Did not sample due to upstream illicit. Buildings inspected instead
	S19	Mass Ave	Western Ave	D10DMH3257	D10DMH3225	5	2	D10DMH3225	Place in upstream pipe at D10DMH3225 and downstream pipe at D10DMH3257.												Did not sample due to upstream illicit. Buildings inspected instead
	S20	Mass Ave	Western Ave to Pleasant St	D10DMH3260	D10DMH3257	3	1	D10DMH3257	Place in downstream pipe at D10DMH3257 and upstream at D10DMH3260.												Did not sample due to upstream illicit. Buildings inspected instead
	S21	Mass Ave	Pleasant St to Clinton St	D10DMH3605	D10DMH3260	11	4	D10DMH3260	Place on invert at D10DMH3260 to collect sample.	9/15/2018		Υ	1.25	0.75	Υ	L1836906-01	60	0.075	0.05	Compliant	
	- S22	Mass Ave	Mass Ave to Harvard	D10DMH3609	D10DMH3605	7	3	D10DMH3257	Placed on Manhole outlet invert  Place on invert at D10DMH3605 to collect	1/28/2020	1/30/2020	N	N/A	N/A	N	N/A	N/A	N/A	N/A	MH dry MH Dry	Post correction Inspection
	322	Clinton St	.nus rec to mirella	510511113003	510511113003	,		D10DMH3605	sample.	9/15/2018		N	N/A	N/A	N					min bry	





# APPENDIX G MANHOLE INSPECTION FORMS

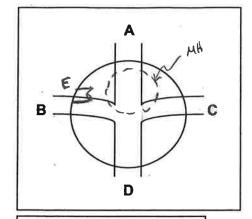
¥	Sidney St Flop Gate
Manhole Inspection Report	MH#-DO8DMH 2225
Strains water, count of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the se	Catchment Area: DIO/DF3  Inspector: ZSH/GF  Date
MANHOLE TYPE Sanitary Manhole; Co	Manhole Size 4' 5' Other   Drop Y /(N)  Depth to Wet Ring from Rim or Invert:  N/A  Dombine Manhole; Storm Manhole; Common Manhole
Paved: Satisfactory Cracked  Missing Pavement Vegetation Growth	Unpaved: Satisfactory Eroded
From / To Invert	Flow Depth Debris

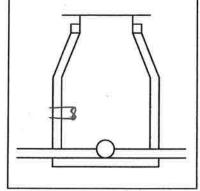
_					22	N .	
	Pipe size	Material	From / To MH#	Invert Depth (fṛom Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
	UNK	UNK	(Mess he)	6.10	the standing	wide o"	
	,	<				-	-
	UNK	UNK	•	6.10	to standing	witer o"	N.
		1		5			
oca the	tion of MH	ROADWAY S	IDEWALK, ROA	DSIDE , ALLE	EY, EASEMENT,	·	
anl	nole Material	- Brick, Clay B	ock, Poured Cor	ncrete, Manhol	e Block, Precast (	Concrete, Other	
ow	- Steady. Pi	ulsina. Turbulei	nt. Surcharging.	(Stagnant) Sluc	ggish, No Flow, (	Other	

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear No Flow,

Recommendations – No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

MH# BLC655 229





MANHOLE TYPE

Sanitary Manhole; Combine Manhole;

Cover Size 24" 30" Other \_\_\_\_\_\_

Manhole Size 4' 5' Other ~ 8'

Drop Y N

Depth to Wet Ring from Rim or Invert:

ombine Manhole; Storm Manhole; Common Manhole

#### **Area Around Manhole**

Paved:	(Satisfactory)	Cracked	Unpaved:	Satisfactory
	Missing Pavement	Vegetation Growth		Eroded

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
A.	24"	<u> PCP</u>	-	10.3'		<1"	
В.	12"	puc	11/	9.3'	_<1"		6000/ACTIVE
C.	6"	PVC		7			
D.	24"	CIPP	***************************************	~10.3'			GOOD, LINER
E.	6"	PVC		5,5'	0	0	6000

Location of MH ROADWAY SIDEWALK, ROADSIDE, ALLEY, EASEMENT, Other

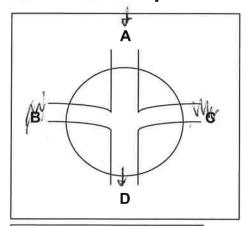
Manhole Material -- Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

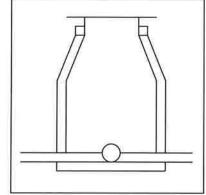
Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant Sluggish, No Flow, Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, No Flow.

Recommendations - No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

MH# DIOCMHOIZE





**MANHOLE TYPE** Sanitary Manhole; Combine Manhole; Storm Manhole; Common Manhole

Catchment Area: Dic/o/2-Inspector: ZSH/GF 11/20/2017 Date Weather 30'5 / 5 000 Rue st @ Cuttage Street **Cover Size** 30" Other \_\_\_\_ Manhole Size (4')5' Other \_\_\_ Drop Depth to Wet Ring from Rim or Invert: Rin to Bot. Sump = 7.92

**Area Around Manhole** 

Paved:	Satisfactory Cracked	Unpaved:	Satisfactory
	Missing Pavement Vegetation Growth		Eroded

	n	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
	A.	_UNK_	Brick w/ tox	UNK	UNIC	_0"	0"	Gert
	В.					2		
Ó	Ø.	UNK	Beck w/ coe.	UNK	6.4'-5"	0"	0"	God
	D.		85		773	And all stading		
	E.	<del></del>				·	1	
	Loca		ROADWAY, SIDE	EWALK, RO	ADSIDE, ALLE	Y, EASEMENT,	-	

Manhole Material (Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow, Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, No Flow.

Recommendations (No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

(DIODAHOOOS)
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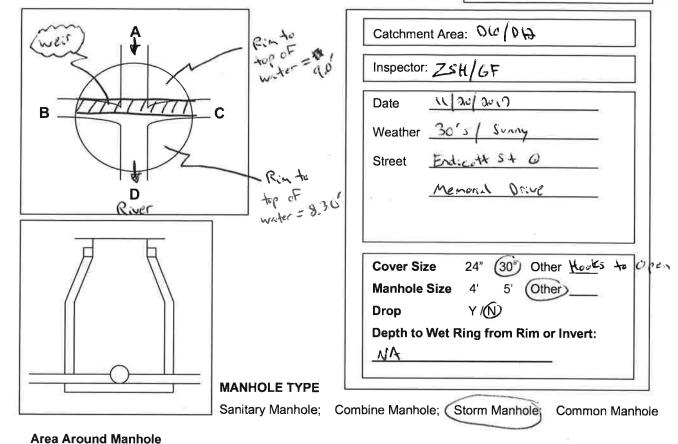
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 Paved:
 Satisfactory
 Cracked
 Unpaved:
 Satisfactory

 Missing Pavement
 Vegetation Growth
 Eroded

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
A.	UNK	UNK	UNK	11.79	Stording wider	0"	Good
B.	Ÿ.						
C.			-			•	
D.	UNK	UNK	River		Strady Weles	0"	Good
E.							

Location of MH (ROADWAY, SIDEWALK, ROADSIDE, ALLEY, EASEMENT,

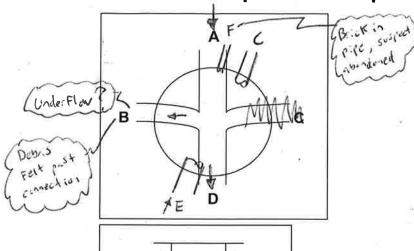
Manhole Material – Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other Walls = Grick Both & Ty = Conc.?

Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant Sluggish, No Flow, Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, No Flow.

Recommendations - No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

MH# D100MH 0235



Catchment Area: DIC/DI3 -

Inspector: ZSH/ GF

11/20 Date 2017

30'5 SUMMY Weather

Street near

**Cover Size** 

30" Other

Manhole Size

5'

Other OVAI

Drop

Depth to Wet Ring from Rim or Invert:

NA

Sanitary Manhole;

Combine Manhole: (Storm Manhole:)

Common Manhole

#### **Area Around Manhole**

Paved: Satisfactory ) Cracked Unpaved: Satisfactory Missing Pavement Vegetation Growth Eroded

**MANHOLE TYPE** 

From / To Invert Flow Depth Debris (from Invert) Pipe size Material MH# Depth Depth Condition (from Rim) F. (from invert) 6"0 VCP 0" UNK 4.80 Brick PVC? ₹ 7.55 % UNK UNK Heav 6.30 te crany MWRA? 3-4" B. ≈ 30 W x 7.66 H Brick 8.86 0 0" C. 7.40 DI MIT MH D. 0" PVC? UNK 7.55 to crown UNK Heavy debris Heav-CB? E. 15"0 5.19 RCP

Location of MH -(ROADWAY, SIDEWALK, ROADSIDE, ALLEY, EASEMENT, Other.

Manhole Material (Brick) Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

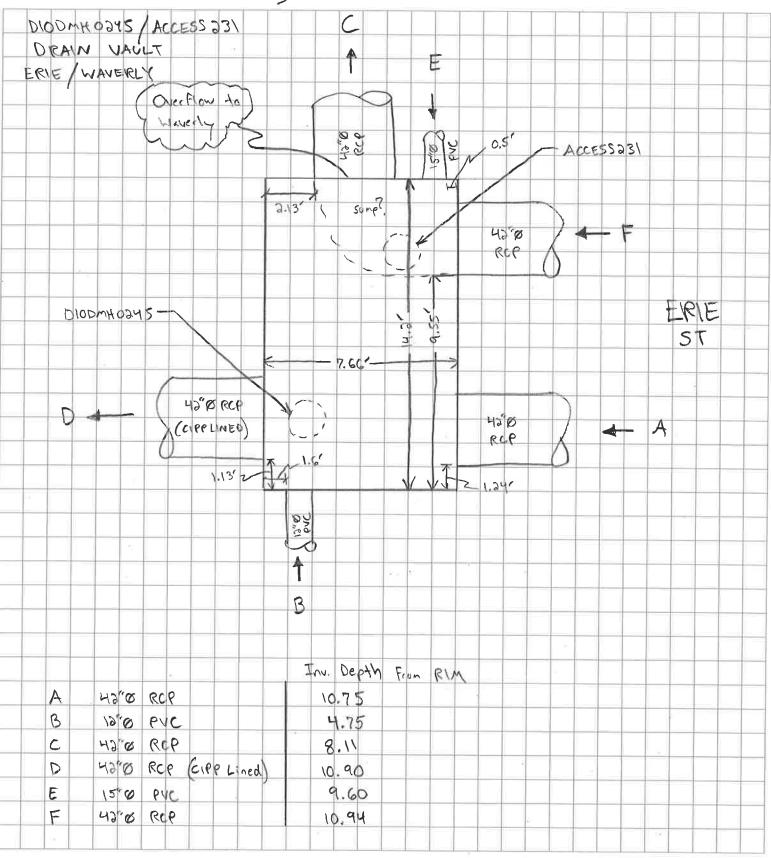
Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, (No Flow) Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, (No Flow)

Recommendations - No Action, Rebuild, Line Manhole Wall, Reset Frame Clean / Remove debris from Invert

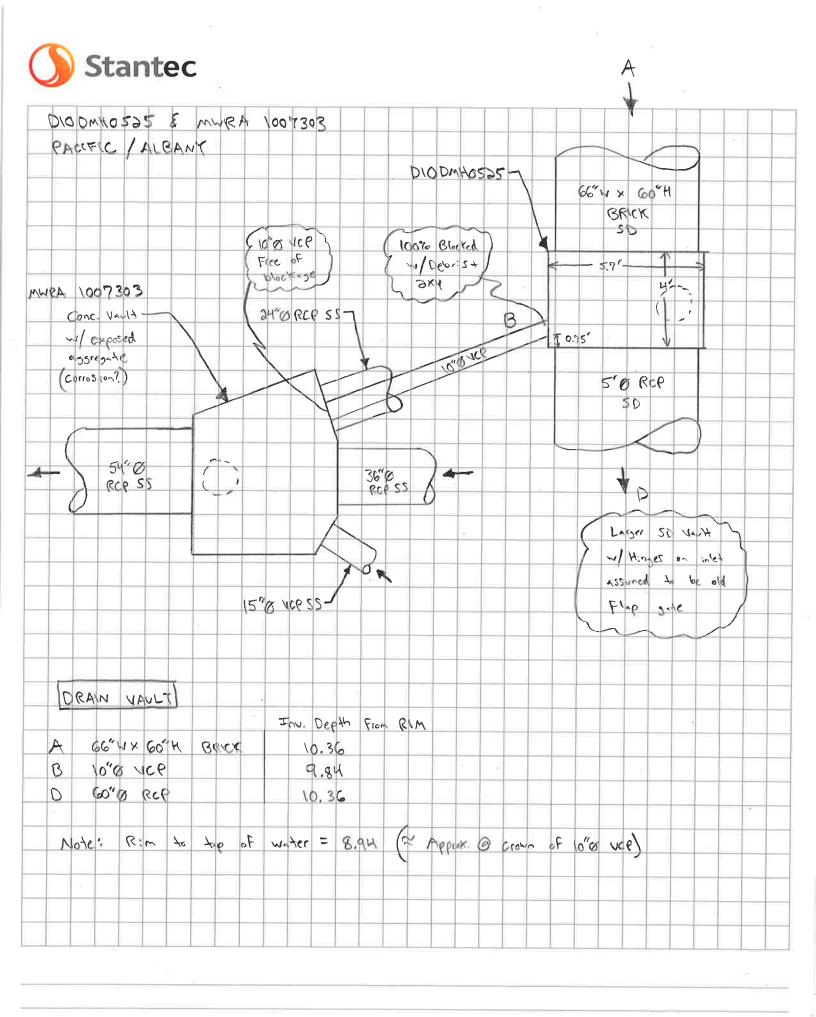


MAVE RLY ST



Designed by: ZSH / JM

Checked by:

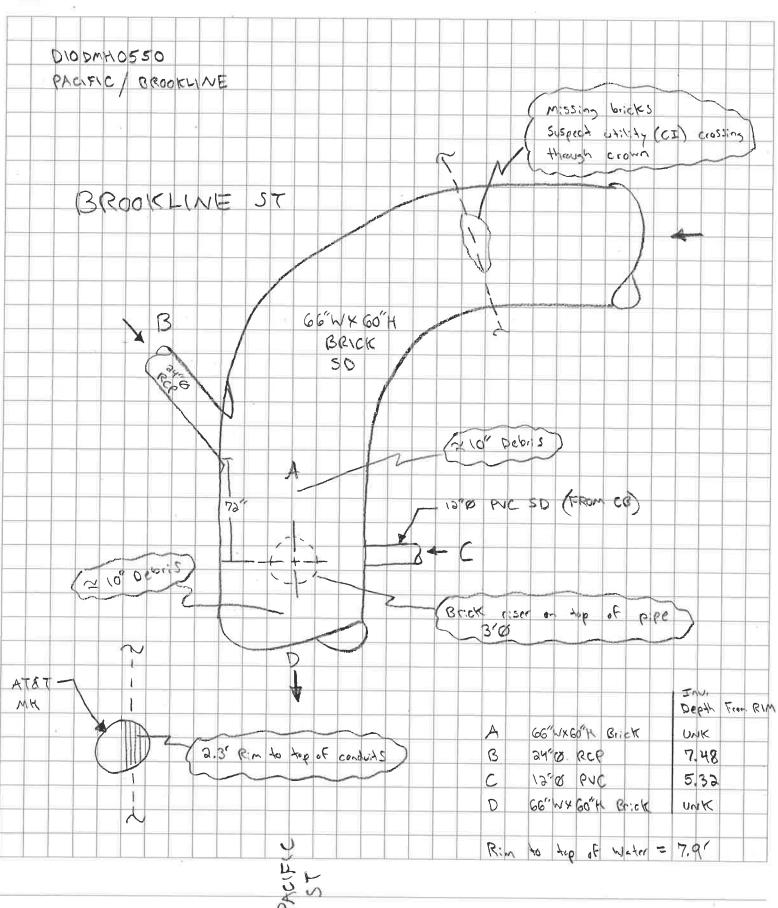


Designed by:

Checked by:

## Manhole Inspection Report MH# D100mH0530 Catchment Area: DIO Inspector: ZSH / JM 4(3/2018 Date Weather 40's / Sunny Pacific St/ Purring Street Rin to top **Cover Size** (24) 30" Other \_ of water = 9.05 Manhole Size 5' Other \_ Drop Rin to top of debris = 9.90 Depth to Wet Ring from Rim or Invert: AN **MANHOLE TYPE** Combine Manhole; (Storm Manhole) Sanitary Manhole; Common Manhole **Area Around Manhole** Paved: (Satisfactory) Cracked Unpaved: Satisfactory Missing Pavement Vegetation Growth **Eroded** From / To Invert Flow Depth Debris Pipe size (from Invert) Material MH# Depth Depth Condition (from Rim) (from invert) 56"W × 5"H BRICK 0.2 Good B. S. 56"WX5"K BRICK 21 × 10.1 0.5 Z. Location of MH (ROADWAY) SIDEWALK, ROADSIDE, ALLEY, EASEMENT, Manhole Material Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant Sluggish, No Flow, Other Clarity of Flow - Normal Sewer Appearance Cloudy, Clear, No Flow. Recommendations -(No Action.) Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

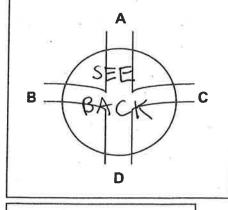


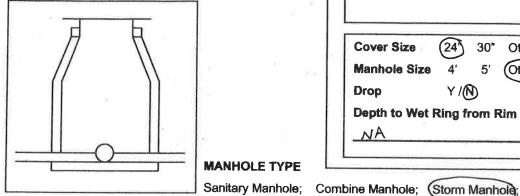


Designed by: ZSH/JM

Checked by:

WH# D10DWH 3953





**MANHOLE TYPE** 

Catchment Area: D\O Inspector: ZSH 2W 18/2018 Date Sunny Weather Street neur Pearl 5+

**Cover Size** 30" Other Manhole Size 5' (Other) Drop Depth to Wet Ring from Rim or Invert:

Common Manhole

**Area Around Manhole** 

Paved: Satisfactory Cracked Unpaved: Satisfactory Missing Pavement Vegetation Growth **Eroded** 

From / To Invert Flow Depth Debris Pipe size Material МН# Depth (from Invert) Depth Condition (from Rim) (from Invert) A. В. C. D. E.

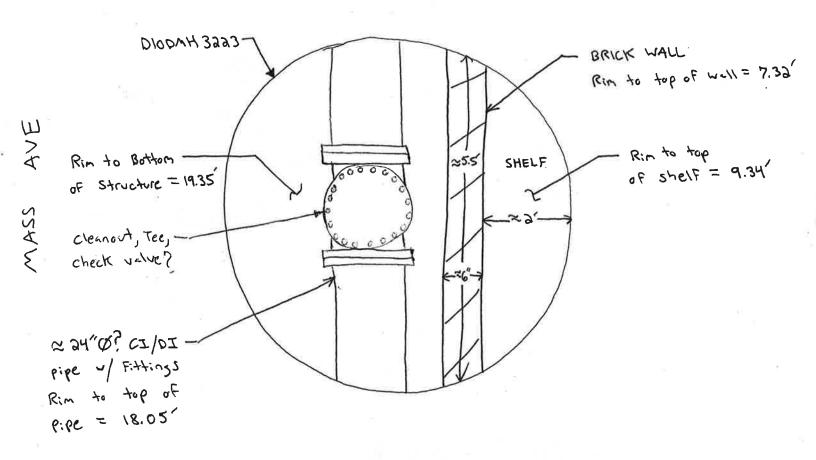
Location of MH - ROADWAY, (SIDEWALK) ROADSIDE, ALLEY, EASEMENT,

Manhole Material - Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, (No Flow),

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, No Flow.

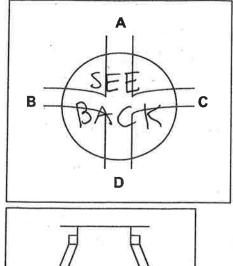
Recommendations - No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert



## Notes:

- L) Fractures in MH, black for appears to be Filled into cracks For rehab
- L) Groundwater infiltration visible through Freeture
- L) Pipe passes through structure
  - Ly Pipe contains Fittings, pressure pipe?
  - La Appenis clement of Tee in center
- Ly Plate could exist at bottom of structure and bolted down
- Ly Removed extensive amount of debris; shovel, rebar, timber, etc.

MH# D100MH3225



MANHOLE TYPE

Sanitary Manhole;

Catchment Area: D\O 
Inspector: ZSH

Date 7/19/2018

Weather 80'S / Svnny

Street Mass Avc @

Western Ave

Cover Size (24) 30" Other \_\_\_\_

Manhole Size 4' 5' Other \_\_\_\_

Drop Y/N ≈ 6 w x √3' L

Depth to Wet Ring from Rim or Invert:

Combine Manhole; (Storm Manhole;

Common Manhole

#### Area Around Manhole

Paved:	Satisfactory	Cracked	Unpaved:	Satisfactory
	Missing Pavement	Vegetation Growth	(Brick)	Eroded

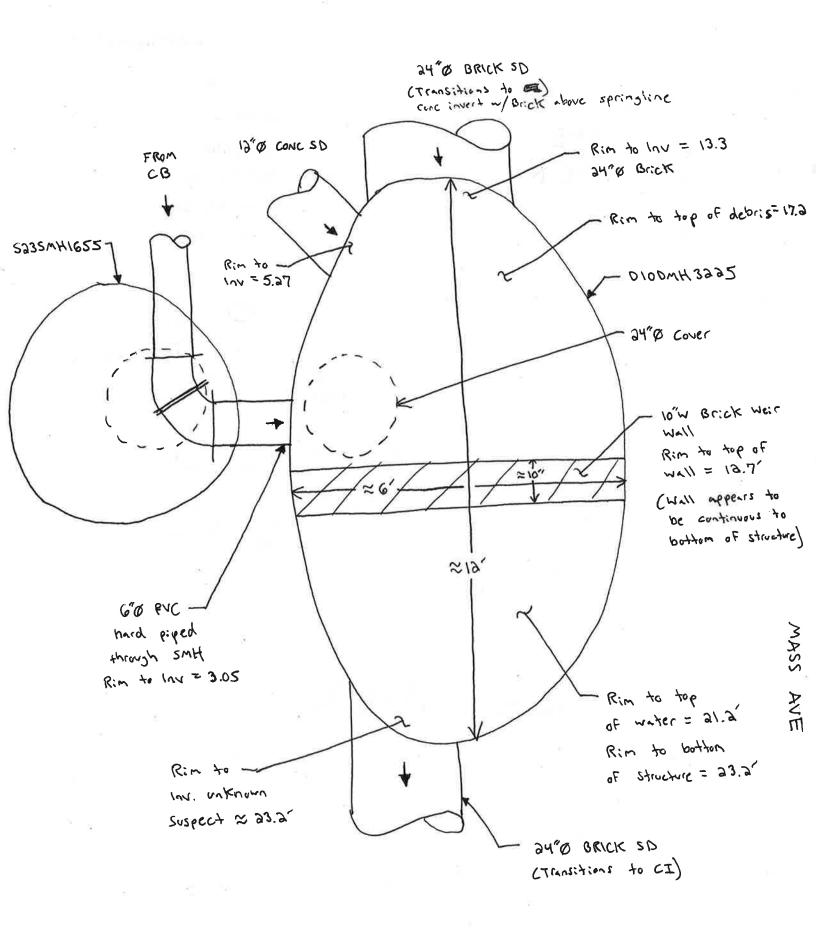
From / To Invert Flow Depth Debris Pipe size Material MH# (from Invert) Depth Depth Condition (from Rlm) (from Invert) A. В. C. D. E. Location of MH - ROADWAY, (SIDEWALK) ROADSIDE, ALLEY, EASEMENT,

Manhole Material - Brick) Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

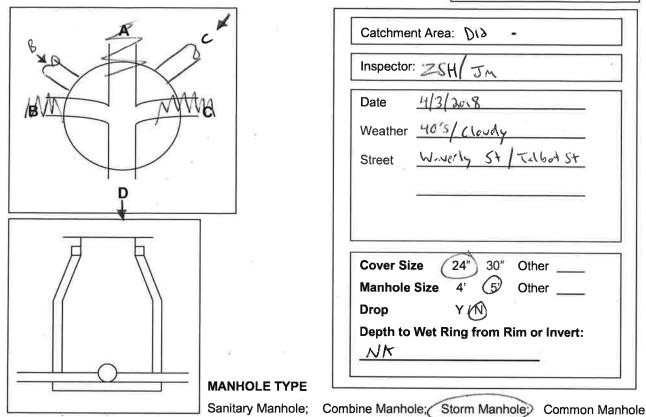
Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnan, Sluggish, No Flow, Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, No Flow.

Recommendations - No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert



MH# DIADMHOGOS



Catchment Area: Did Inspector: ZSH/ JA Date Street **Cover Size** 30" Other \_\_ Manhole Size Other \_ Drop Depth to Wet Ring from Rim or Invert: NK

**Area Around Manhole** 

Paved:	Satisfactory	Cracked	Unpaved:	Satisfactory
	Missing Pavement	Vegetation Growth		Eroded

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
K.							
B.	19 <u>"</u> @	DI	SAYS MHOGO	8.08	0"	0"	Good
C.	48"0?	RCP		8.08	0"	0"	Good
D.	54"Ø	RCP	Vault	≈11.09 \$008	0"	0"	Good
<b>F</b> .							
Loca Othe	ation of MH —	ROADWAY S	IDEWALK, ROAI	DSIDE, ALLE	Y, EASEMENT		

Manhole Material - Brick, Clay Block, Poured Concrete, Manhole Block Precast Concrete, Other

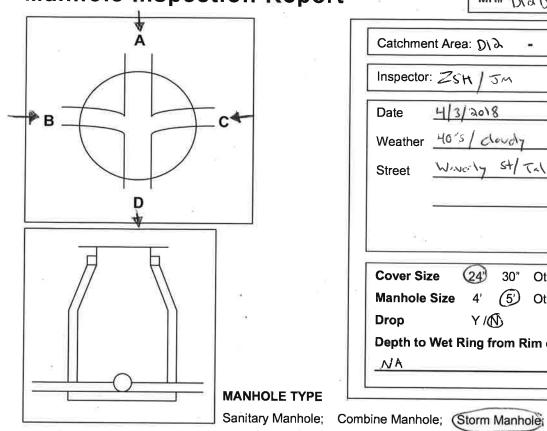
Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow, Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, (Clear) (No Flow)

Recommendations - (No Action) Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

MH# DIADMHO805

Common Manhole



Catchment Area: D/2 Inspector: ZSH / JM 4/3/2018 Date Weather 40'5 / cloudy Street **Cover Size** 30" Other Manhole Size (5)Other Drop Y/(N) Depth to Wet Ring from Rim or Invert:

**Area Around Manhole** 

Paved: Satisfactory (Cracked) Unpaved: Satisfactory Missing Pavement Vegetation Growth Eroded

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
Α.	18"Ø	RCP	_	_10.5	_0"		Good
B.	18"Ø_	RCP/CIPP Lined	Blds?	10.66			Good
C.	16" Ø	DI	CB	3.96	<u> </u>	0	Good
D.	_30"ø	RCP		10.66	4"	0"	Good
Ø.							

Location of MH (ROADWAY), SIDEWALK, ROADSIDE, ALLEY, EASEMENT,

Manhole Material - Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

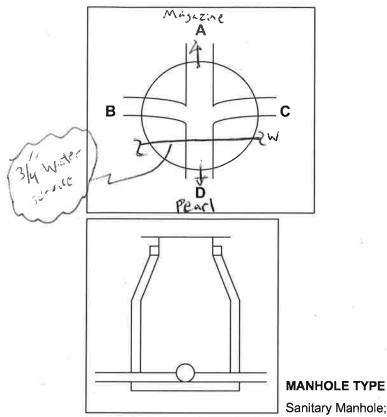
Flow - Steady Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow, Other From CB, Snow mel

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clean, No Flow.

Recommendations (No Action) Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert



MH# DI2 DMH 7405



Catchment Area: DIO/DIA-Inspector: Z5H/6F 11/30/3017 Date Weather Street **Cover Size** 30" Other **Manhole Size** 5' Other Drop Depth to Wet Ring from Rim or Invert:

Sanitary Manhole; Combine Manhole; (Storm Manhole)

Common Manhole

6.5

## **Area Around Manhole**

Paved:	Satisfactory	Cracked	Unpaved:	Satisfactory
	Missing Pavement	Vegetation Growth		Eroded

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
Α.	UNK	UNK	UNK	6.50		~~ 3″	Good
B.			ii.	·			
Ø.						1	
D.	UNK	UNK	UNK	6.33		~3"	Good
Æ.			0				

Location of MH - (ROADWAY) SIDEWALK, ROADSIDE, ALLEY, EASEMENT,

Manhole Material (Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, No Flow.

Recommendations - No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert 4) Water service through

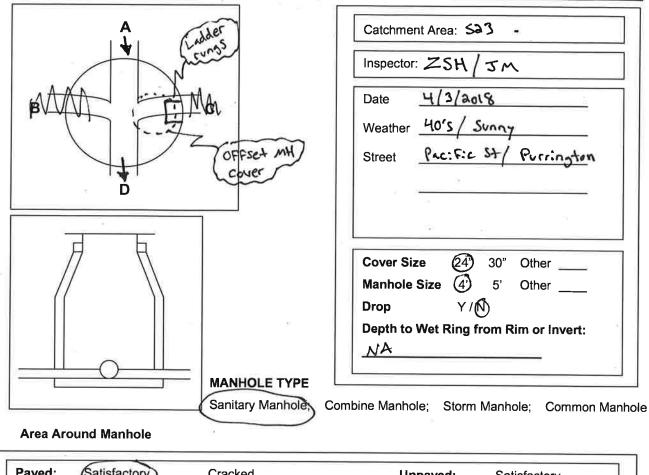


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Designed by:

Checked by:

MH# S235MH0015



Paved:	Satisfactory	Cracked	Unpaved:	Satisfactory
	Missing Pavement	Vegetation Growth	*	Eroded

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
A. B.	21"	PVC		13.95	~ 6~	0"	Good
Æ. D. Æ.		PVC		13.95			Good
Loca		ROADWAY, SI	DEWALK, RO	ADSIDE, ALLE	EY, EASEMENT,	) <del></del> -	

Manhole Material - Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete Other

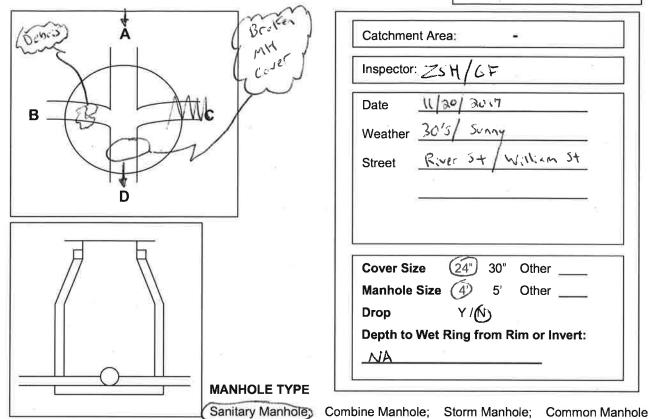
Steady) Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow, Other Flow (

Clarity of Flow - Normal Sewer Appearance, Cloudy Clear, No Flow.

Recommendations (No Action) Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

Eccentric manhale

MH#5235MK 2215



Catchment Area: Inspector: ZSH/ GF 11/20/ 3017 Date 30/5/ SUNTY Weather William St River 5+ Street (24") **Cover Size** 30" Other Manhole Size 5' Other Drop Depth to Wet Ring from Rim or Invert:

**Area Around Manhole** 

Paved: Satisfactory Cracked) Unpaved: Satisfactory Missing Pavement Vegetation Growth **Eroded** 

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
Α.	8"Ø.	VCP	UNK	10.24		_6"_	i:
B.	80?	VCP?	William St.	10.2	0"	Debris blocking	pipe cone?
C.							
D.	8"ø?	VCP?	UNK	<u>≈ 10.3′</u>	_\"	MH COVER	
E.		-	v e		20		×

Location of MH(-ROADWAY), SIDEWALK, ROADSIDE, ALLEY, EASEMENT,

Manhole Material (Brick,) Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

Flow ( Steady) Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow, Other

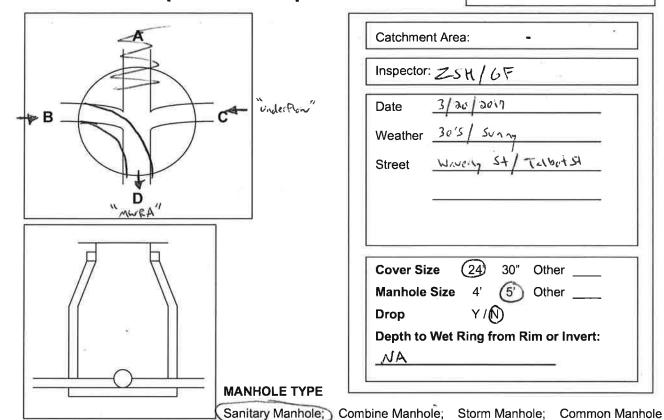
Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, No Flow.

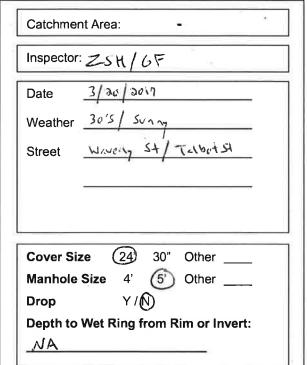
Recommendations - No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

## S24CMH1200

## **Manhole Inspection Report**

MH# 5MH1





#### **Area Around Manhole**

Paved:	Satisfactory	Cracked	Unpaved:	Satisfactory	
	Missing Pavement	Vegetation Growth		Eroded	

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
A.	8						
В.	13.0	PNC	SMHQ	14.32	<1°	0′′	Cood
C.	18"6	PVC	Drain Vault	11.77'	40	0"	Good
D.	13"0	616	MWRA	15.40	21"		Good
Æ.							

Location of MH (ROADWAY) SIDEWALK, ROADSIDE, ALLEY, EASEMENT,

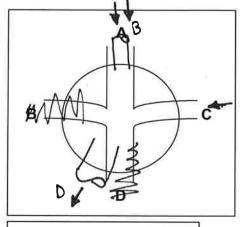
Manhole Material - Brick, Clay Block, Poured Concrete, Manhole Block Precast Concrete, Other

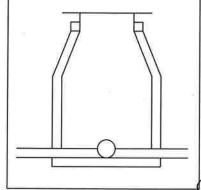
Flow Steady Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow, Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear, No Flow.

Recommendations - (No Action) Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

MH# 524CM41205





MANHOLE TYPE

Sanitary Manhole; Combine Manhole; Storm Manhole; Common Manhole

#### **Area Around Manhole**

Paved:	Satisfactory	Cracked	Unpaved:	Satisfactory
	Missing Pavement	Vegetation Growth		Eroded

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
A.	120	PVC	524CMH1210	14.32	1"	0°	Good
B.	13 Q	PVC	Alond? Drop?	10.54	_0~		Good
C.	<u>4"Ø</u>	UNK	Bldz?	13.44	41"	0=	Good
D.	120	PUC	524CMH1200	14.40	1=	0=	Good
Æ.							

Location of MH (ROADWAY) SIDEWALK, ROADSIDE, ALLEY, EASEMENT, Other

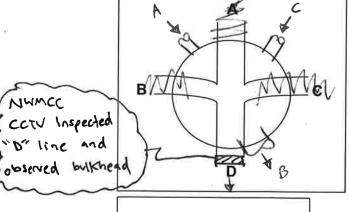
Manhole Material - Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow, Other

Clarity of Flow - (Normal Sewer Appearance) Cloudy, Clear, No Flow.

Recommendations No Action, Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert

MH# SQYSMHO100



No Channel
No channel
No oders
Suspect drain
La sample to
confirm

MANHOLE TYPE
Sanitary Manhole;

Catchment Area: Say 
Inspector: ZSH/JM

Date 4/3/2018

Weather 40's/ cloudy

Street Waverly St/Talbet St

Cover Size 24 30" Other \_\_\_\_

Manhole Size 4 5' Other \_\_\_\_

Drop Y/N

Depth to Wet Ring from Rim or Invert:

Common Manhole

Combine Manhole; (Storm Manhole)

Area Around Manhole

Paved: Satisfactory Cracked Unpaved: Satisfactory

Missing Pavement Vegetation Growth Eroded

	Pipe size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition
A	4″ø	_VCP_	13ldg	8. <i>5</i> a	_0"_		Good
B.	/3″Ø	DI	<u>D120MH060</u> 5	8.68	0"	_0"	Good
C.	6'4	<u>vcp</u>	- Bldg	8.58	W 0"	6"	Good
D.	13"\$	RCP	Bulkhended	8.64		_8"	Pool
Æ.			27				14

Location of MH - ROADWAY, SIDEWALK, ROADSIDE, ALLEY, EASEMENT, Other

Manhole Material - Brick, Clay Block, Poured Concrete, Manhole Block, Precast Concrete, Other

Flow - Steady, Pulsing, Turbulent, Surcharging, Stagnant, Sluggish, No Flow, Other

Clarity of Flow - Normal Sewer Appearance, Cloudy, Clear No Flow.

Recommendations - No Action Rebuild, Line Manhole Wall, Reset Frame, Clean / Remove debris from Invert



MH 1
Riser

Riser

Rim to top of weir = 6.09'

Rim to Floor @ weir = 11.53' & 11.56'

Rim to top of inside of structure = 4.45'

Top stab = 12"

Rim to top of riser = 1.55'

Rin to top of debris = 15.72

Rin to floor = 16.14 (with sump)

Rin to top of water = 11.42

Rin to top of weir = 7.66 ( Notch in weir)

Riser = 30°\$ precist cone. W/ 30°\$ cover

Riser = 30° \$ precent come w/ 30° \$ coner

Notes: H SayCMH1200 = 5'\$ H Pecfic / Purrington = 5235 mH0015

SMH = 4'00 precest conc. Printo top of Intel = 12.30' Printo top of stell = 13.8'

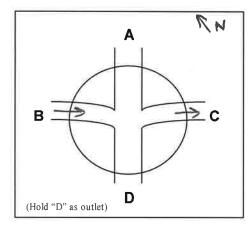
**Manhole Inspection Report** Structural Information: MH# Access 352 24" Cover Size: 30" Other: MH Size: Catchment Area: Sump Depth: MA YAN Inspector: MH Sump: (7)/N MH Channel: Weather: 30'S Y/(N) Rim to Top of Weir: NA Weir: Peurl Street/Location: Ecic (4) Internal Drop: General Comments: Cover offset Depth to Wet Ring from Rim: NA D (Hold "D" as outlet) General Information: Manhole Type: Sanitary Storm Combined Common  $\square$ Location of MH: Sidewalk Roadway Roadside Alley Other Easement Manhole Material: Brick Clay Block **Poured Concrete** Manhole Block Other **Precast Concrete** Paved Area Around MH: Satisfactory Cracked Missing Pavement Vegetation Growth Unpaved Area Around MH: Satisfactory Eroded Odors: None Recommendations: Rebuild No Action Line Manhole Wall Reset Frame Clean / Remove debris from Invert Pipe Information: Pipe From / To Invert Depth Flow Depth Debris Depth Material Condition Flow Clarity of Flow Size MH# (from Rim) (from Invert) (from Invert) Good UNK Pensi (NE) Good Penrl (SW) Good Ring to shelf = 9.85 IN = 11.35 Good

## Field Test Kit Results:

Pipe (A-F):	Α	В	С	D	E	F
Flow, GPM						
Ammonia, mg/L (Compliant ≤ 0.5 mg/L)						
Surfactants, mg/L (Compliant ≤ 0.25 mg/L)						
Chlorine, mg/L (Compliant < 0.02 mg/L)						
Water Temperature, degrees C	-					
рН						
Conductivity, µS						
Salinity, ppt						

## MH# DIODMH3257

Catchment Area:
Inspector: ZH, MS
Date/Time: 1/19/20
Weather: 30'S < LOVDY
Street/Location: MASS AVE
General Comments:



## Structural Information:

## **General Information:**

				-								
Manhole Type:	Sanitary		Storm	Į.	Combined		Common					
Location of MH:	Roadway		Sidewalk	$\square$	Roadside		Alley [		Easement	Other 🗌		
Manhole Material:	Brick		Clay Block		Poured Con	crete		][	Manhole Block	Precast Concr	ete 🛮 Other	3 × 4
Paved Area Around MH:	Satisfactory		:0		Cracked			]	Missing Pavement		Vegetation Growth	
Unpaved Area Around MH:	Satisfactory				Eroded		BRICK		SIDEWALK			
Odors:	いっくら											
Recommendations:	No Action	$\square$	Rebuild		Line Manho	le Wal	II [	3	Reset Frame	Clean / Remo	ve debris from Invert	

## Pipe Information:

	Pipe Size	Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condition	Flow	Clarity of Flow
Α	-		3		93			· · · · · · · · · · · · · · · · · · ·	¥
В.	18"	DI		11.85	1``	NoME	G001)	NU	
C.	18"	<u>DI</u>		11.85		NONE	G00 D	No.	
<b>D</b> ,,;	-				r		<u>-</u>	= =====	-
E.		55	,		8	:			
F.									

## Field Test Kit Results:

Pipe (A-F):	A	В	С	D	E	F
Flow, GPM						
<b>Ammonia</b> , mg/L (Compliant ≤ 0.5 mg/L)						
Surfactants, mg/L (Compliant ≤ 0.25 mg/L)						
Chlorine, mg/L (Compliant < 0.02 mg/L)						
Water Temperature, degrees C						
pH						
Conductivity, µS		·				
Salinity, ppt						

C					167			
Manhole Insp	pection	Report			S	structural Infor	rmation:	
WH# DISDAHO807		A			Cover Size: 24" 30" Other:			
Catchment Area: DI3 Inspector: ZSHI MS Date/Time: 1/10/30 Weather: 30'S / Cloud Street/Location: Marchy General Comments: DMH on West s:	Hold "D" as outlet)			MH Size: 4' 5' Other:  MH Sump: Y/N Sump Depth: MA  MH Channel: Y/N Rim to Top of Weir: MA  Internal Drop: Y/N  Depth to Wet Ring from Rim:				
General Information:		,						
Manhole Type:			Combined	Common 🗌				
Location of MH:  Manhole Material:	Roadway 🔽	Sidewalk	Roadside 🗌	Alley 🗌	Easement			
Paved Area Around MH:	Brick Satisfactory	Clay Block	, Poured Concrete Cracked		Manhole Block			
Unpaved Area Around MH:	Satisfactory		Eroded		Missing Pavement		Vegetation Growth	h 
Odors:	None ,		Lioued 🔲	U				
Recommendations:	No Action	Rebuild	Line Manhole Wal	II 🔲	Reset Frame	Clean / Remo	ove debris from Inver	t []
Pipe Information: Pipe Material Size RCC	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)	Condi	tion	Flow	Clarity of Flow
B. at o RCP /liner	? Blds	10.50'	210	O'	Good	7	Steady	clear
c. 16"Ø DI	CB	4.00	0"	0"	Good	7,	NA	NA
D. 30" B RCP	9	10.50	4"	0"	Good		stooly	clear
		UNK	0"	0"	Cool		NA	NA
F		9======================================			S. San			

mill States

### DIADMH 0505 Field Test Kit Results:

Pipe (A-F):	Α	В	С	<b>6</b>	E	F
Flow, GPM				1-2		.1
<b>Ammonia</b> , mg/L (Compliant ≤ 0.5 mg/L)	1,1			0.0		
Surfactants, mg/L (Compliant ≤ 0.25 mg/L)	1.17			2.0 ->	sent to la	26
Chlorine, mg/L (Compliant < 0.02 mg/L)	Z ==			0.05		
Water Temperature, degrees C	-			9°C	- V-	
рН				7.03		
Conductivity, µS	BC 50 F			a.68		
Salinity, ppt				1.40		

Manhole Insp	ection R	Report			, ş	Zim to top water = 7. Structural Inform	75	
MH# DIODMH 1110				A	May	Cover Size: (	24) 30" Other:	
Catchment Area: D10 Inspector: Ak 2H Date/Time: 1/10/2028 Weather: 44 F Street/Location: Vassa General Comments: Hay MH Sump General Information:	M5 11:35	<u> </u>	→B (Hold "D" as outle	et) D	_ c←	Internal Drop:	$\gtrsim$ .	
Manhole Type:		Storm 🗂	Combined	Common				(2)
Location of MH:		Sidewalk 🔲	Roadside 🗌	Alley 🗌	Easement	Other		
Manhole Material:		Clay Block 🔲	Poured Concrete		Manhole Block	Precast Concr	A-1-10 (1971)	
Paved Area Around MH:	Satisfactory		Cracked		Missing Paveme	nt 🔲	Vegetation Growth	
Unpaved Area Around MH:	Satisfactory	Ш	Eroded					
Odors:	None							
Recommendations:		Rebuild	Line Manhole Wa		Reset Frame	☐ Clean / Remo	ve debris from Invert	Ш
Rim to sum ( Chatton Pipe Information:	n) 10.95	Top o	7 delens	= 10.1;				
Pipe Material Size Material	From / To MH#	Invert Depth (from Rim)	Flow Depth (from Invert)	Debris Depth (from Invert)		ndition	Flow	Clarity of Flow
A 18" RCP		8.28	0	D	_,			
B. 12" PCP	CBC2A	7-7	6	6				
C. 12" PCP	LB	4.2'	6	6				<u> </u>
D. 131' RCP		8-281	6		_		= == 5	
Er				i i				<u> </u>
F.,								

### Field Test Kit Results:

Pipe (A-F):	A	В	С	D	E	F
Flow, GPM						
Ammonia, mg/L (Compliant ≤ 0.5 mg/L)						
Surfactants, mg/L (Compliant ≤ 0.25 mg/L)						
Chlorine, mg/L (Compliant < 0.02 mg/L)						
Water Temperature, degrees C						
рН						
Conductivity, µS						
Salinity, ppt						





## APPENDIX H SAMPLING PROCEDURE

#### **Recommended Illicit Connection Survey Procedure**

- Step 1: Confirm separation work is complete and manhole inverts have been installed
- Step 2: Clean storm drain and pump out flow in mainline sump manholes
- **Step 3:** Designate testing reaches from upstream DMH to downstream DMH. If mainline sump manholes exist then the sump manhole must be designated as the downstream testing manhole
- Step 4: Install sandbags in downstream drain manholes creating a dam for upstream testing reach
- **Step 5:** Wait 48 hours (2 nights and 2 mornings) with no precipitation for any dryweather flow to accumulate behind sandbag dam

#### **Step 6:** Begin sampling:

If no flow is found behind sandbag dam then reach = compliant If flow is built up behind sandbag dam:

- Collect (2) e.coli samples for laboratory
- Use Field Kits to test Ammonia & Surfactants:
  - Ammonia Field Kit = CHEMets Kit No. K-1410
    - o Compliant ≤ 0.5 mg/L
    - Non-compliant > 0.5 mg/L
  - Surfactants Field Kit = CHEMets Kit No. K-9400
    - o Compliant ≤ 0.25 mg/L
    - Non-compliant > 0.25 mg/L
- If field kits are compliant no further samples are needed for the lab
- If field kits are non-compliant then collect Ammonia and Surfactants sample for the lab
- Lab Parameters:

E.coli Lab Sample:

Compliant ≤ 235 cfu/100mL Non-compliant > 235 cfu/100mL

Ammonia Lab Sample:

Compliant ≤ 0.5 mg/L Non-compliant > 0.5 mg/L Surfactants Lab Sample:

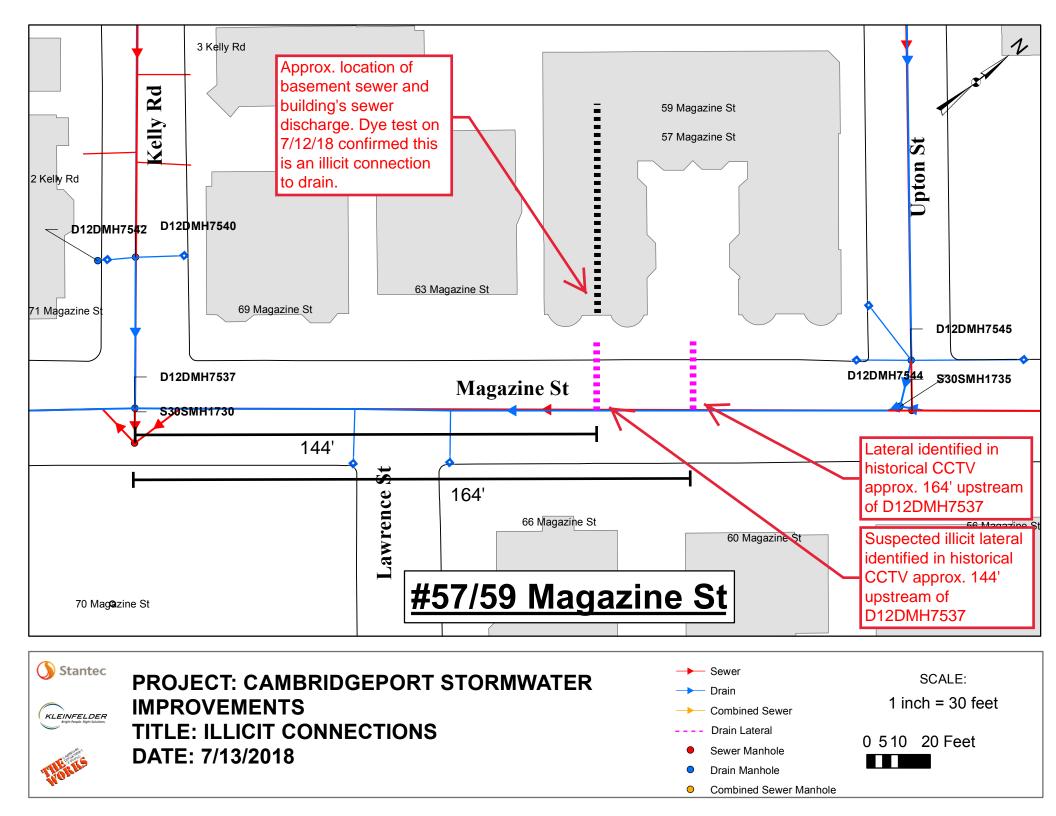
> Compliant ≤ 0.1 mg/L Non-compliant > 0.1 mg/L

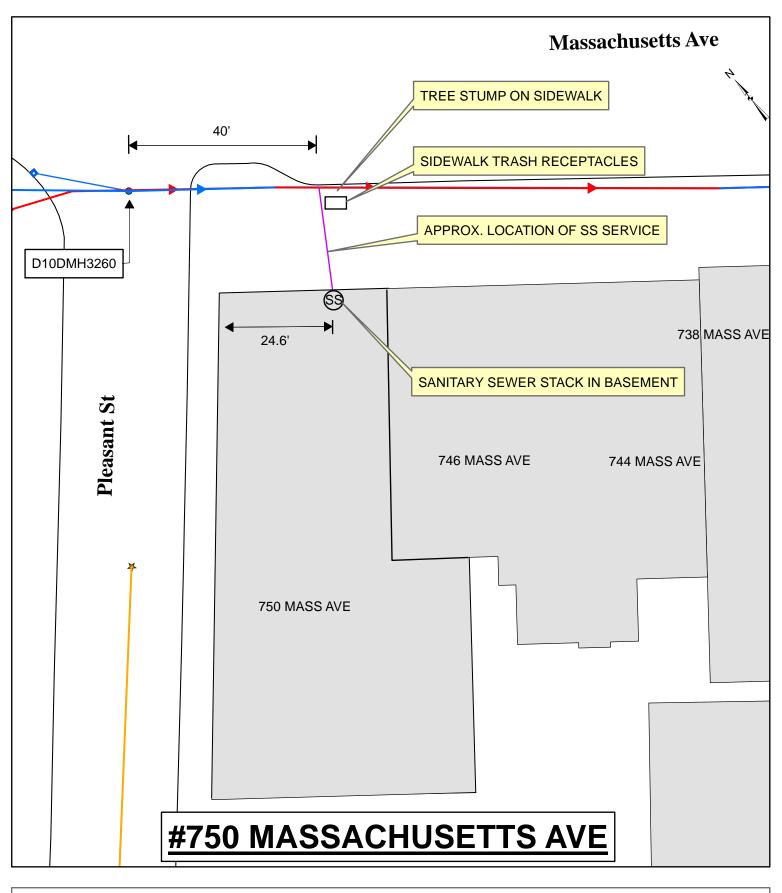
- **Step 7:** If sampling identifies non-compliant reaches begin dye testing buildings to identify illicit sources and redirect illicits within reach
- **Step 8:** Repeat cleaning, sandbagging, and sampling procedure again to verify the storm drain has no illicit sanitary flow





# APPENDIX I ILLICIT REDIRECTION SKETCHES



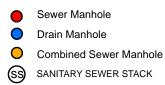




PROJECT: CAMBRIDGEPORT STORMWATER IMPROVEMENTS

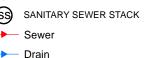
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CONNECTION DATE: 4/4/2018

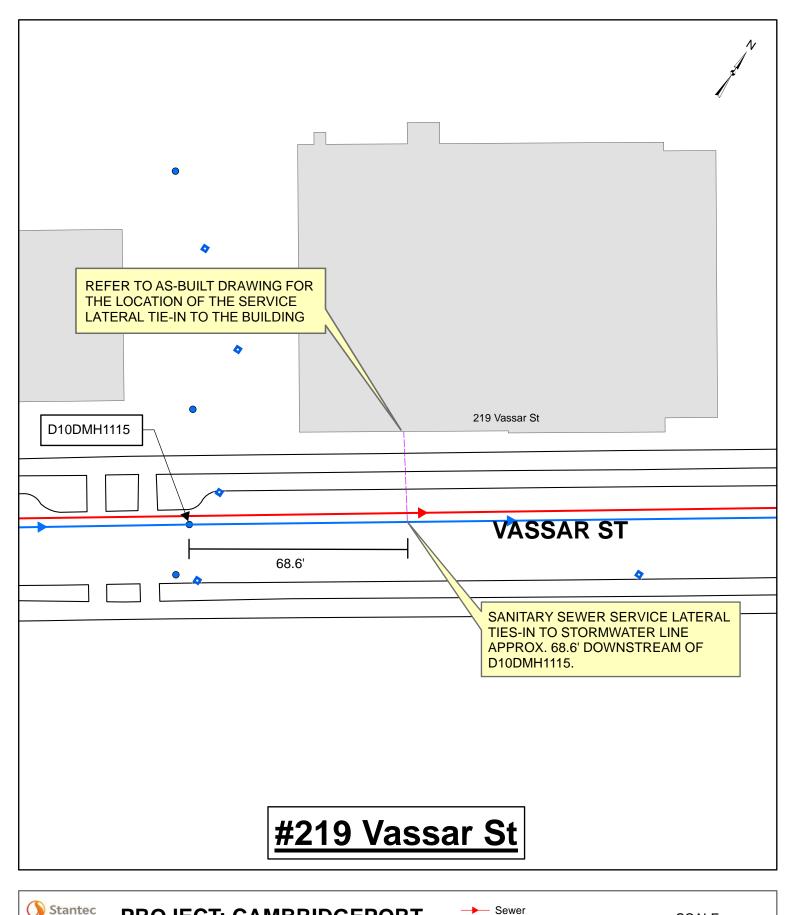


Combined Sewer

SCALE: 1 inch = 20 feet



5 10 20 Feet





PROJECT: CAMBRIDGEPORT STORMWATER IMPROVEMENTS

TITLE: ILLICIT STORMWATER

CONNECTION DATE: 4/20/2018 Sewer

Drain

**Combined Sewer** 

Sewer Service Lateral

Sewer Manhole

Drain Manhole

Combined Sewer Manhole

SCALE:

1 inch = 30 feet

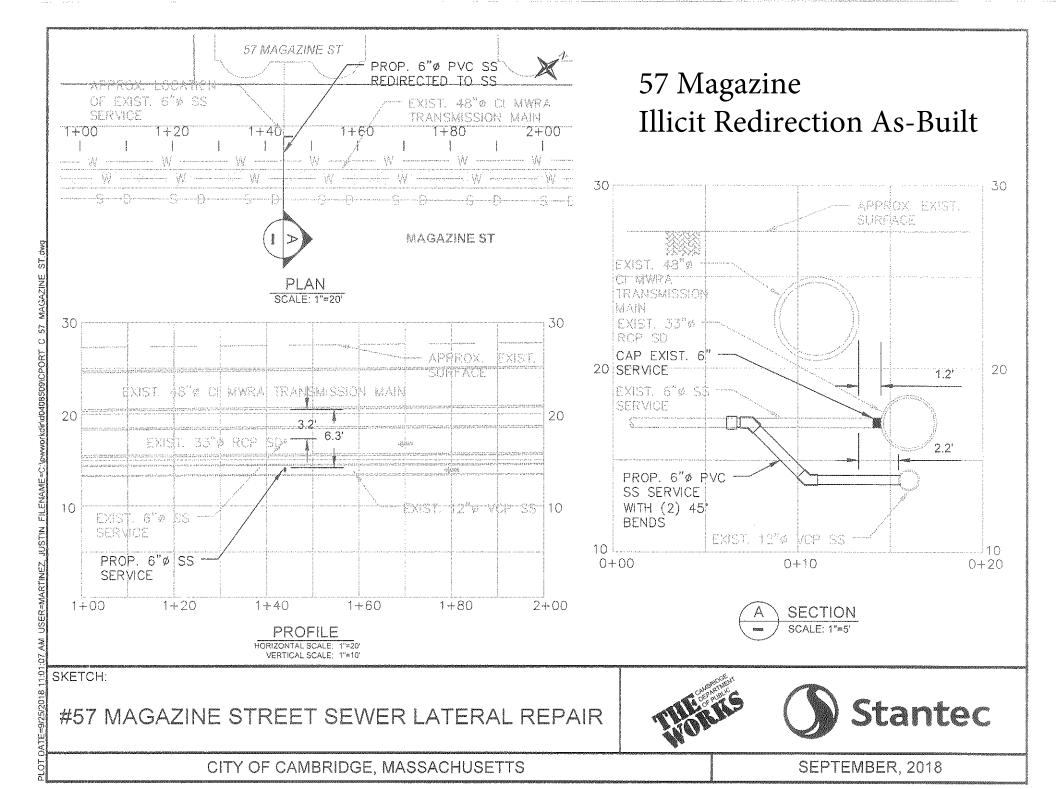
0 5 10 20 Feet

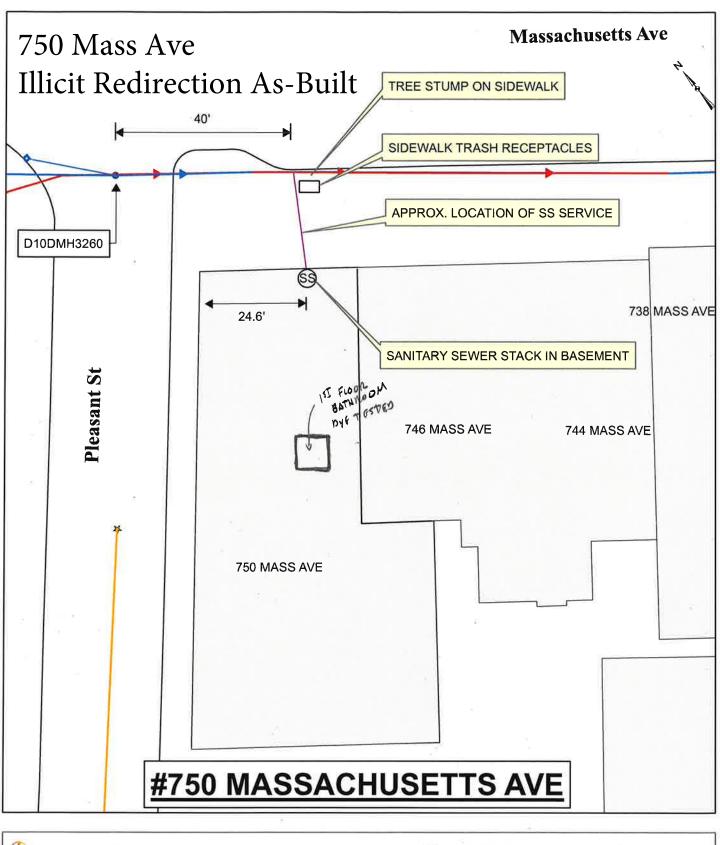






# APPENDIX J ILLICIT REDIRECTION AS-BUILTS

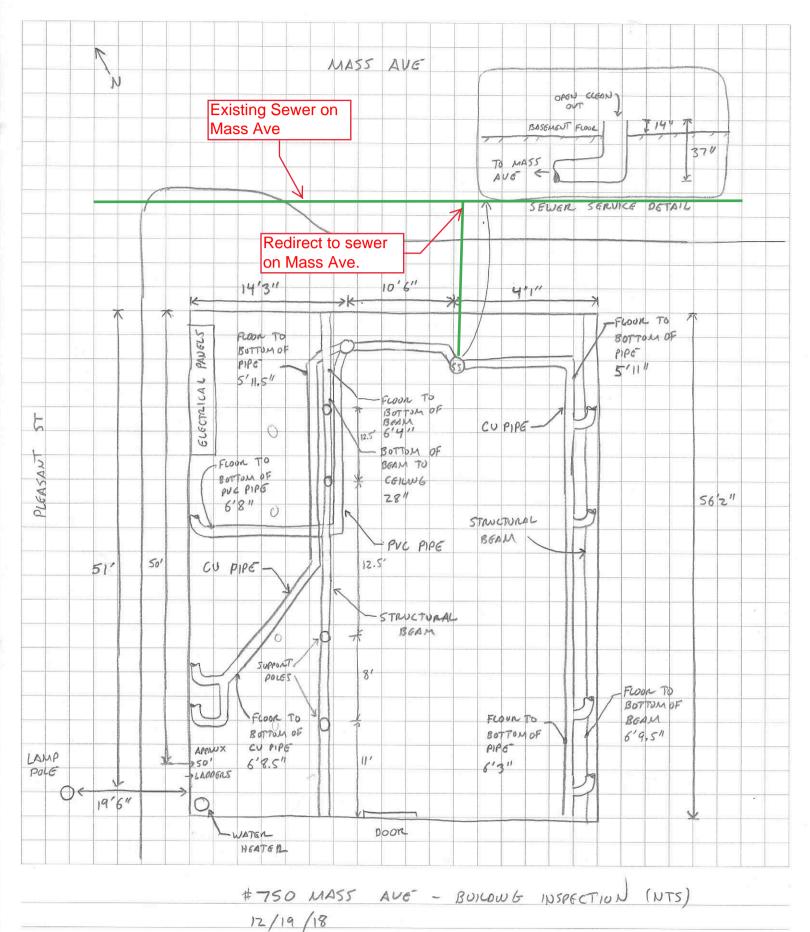








### 750 Mass Ave Illicit Redirection As-Built



Alt 3 - Redirect to Sewer on Mass Ave

Designed by:

